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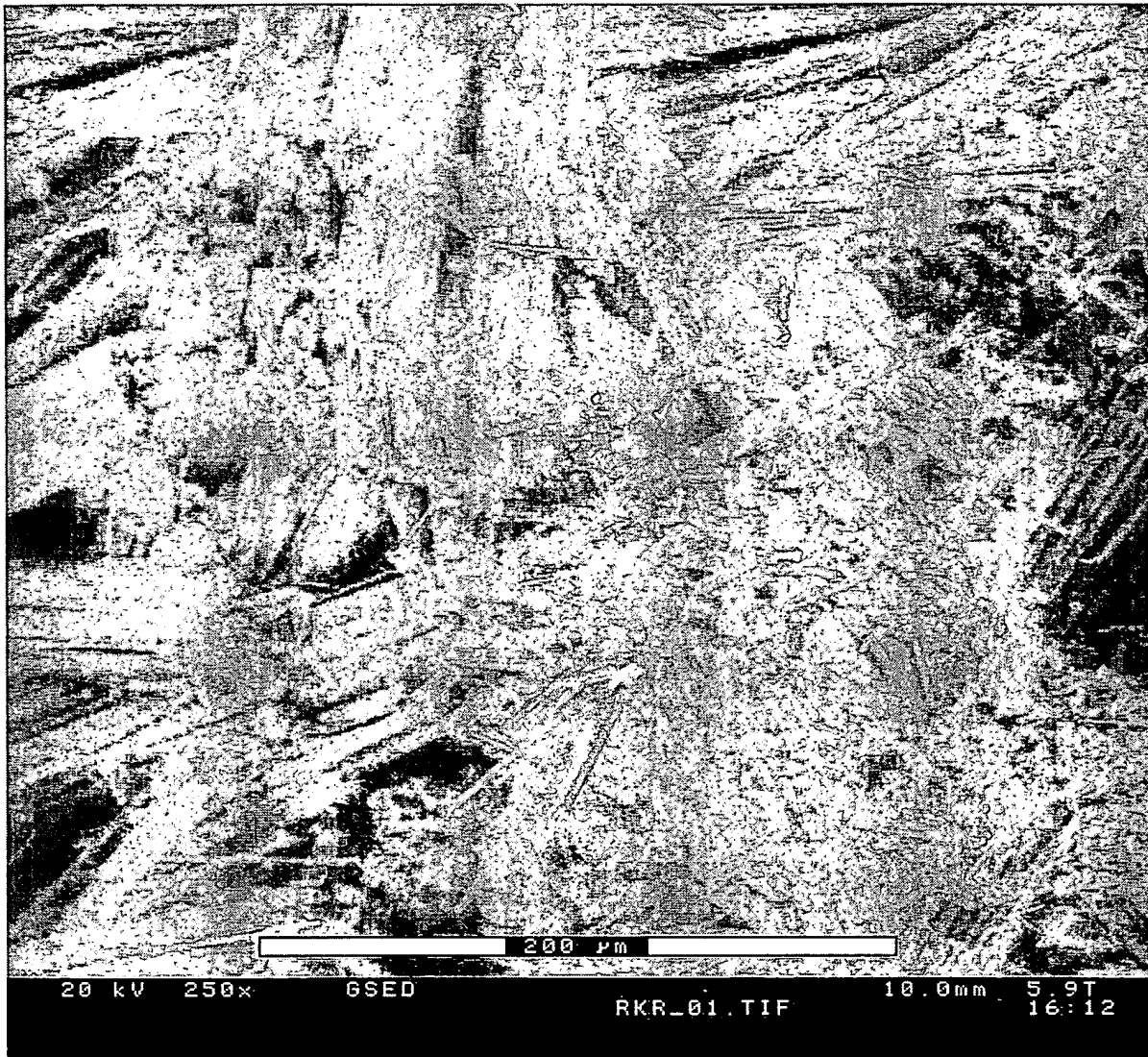
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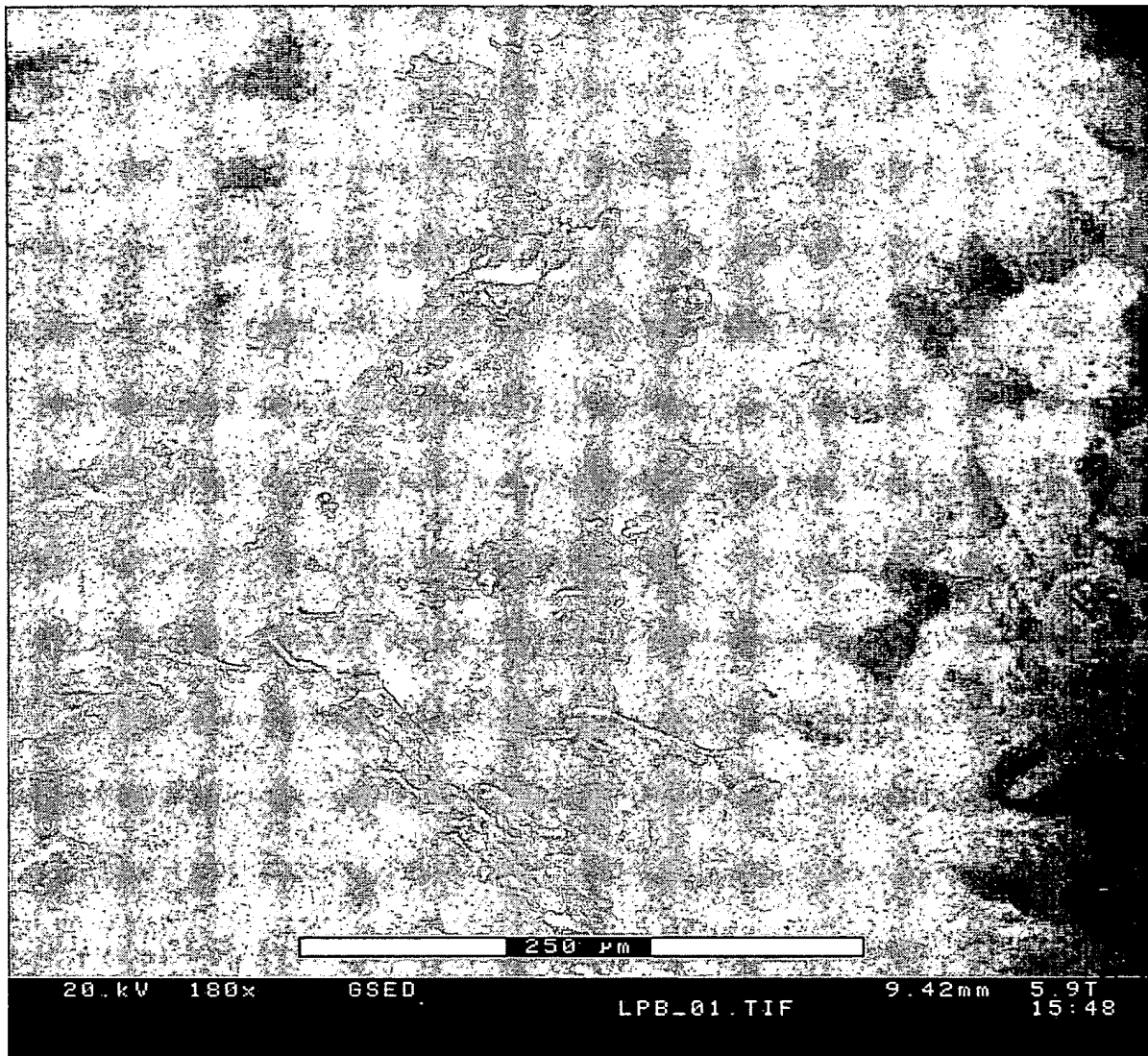
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FIG. 1



PRIOR ART

FIG. 2



PRIOR ART

FIG. 3

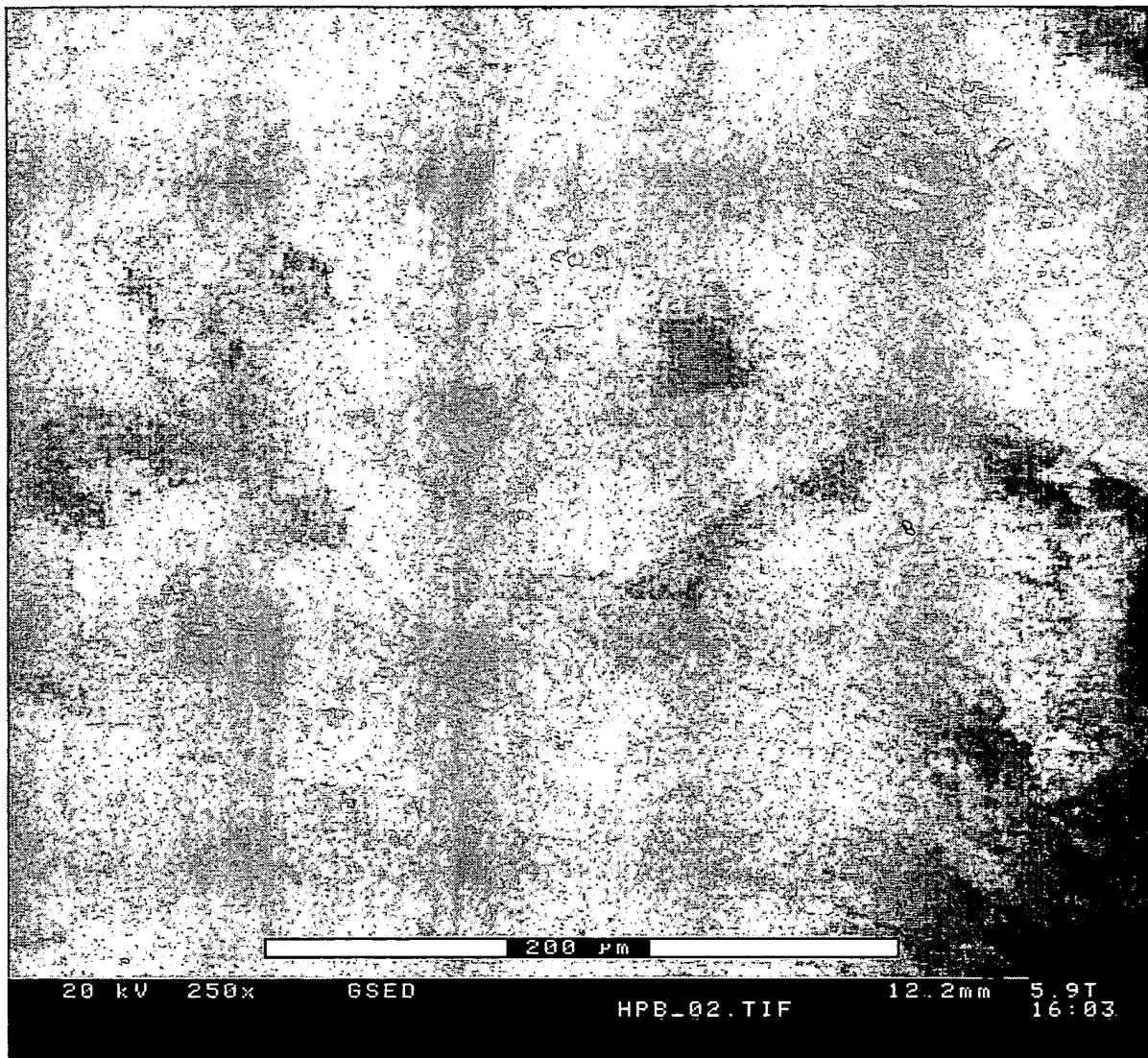


FIG. 4 Quality of Briquettes Schematic

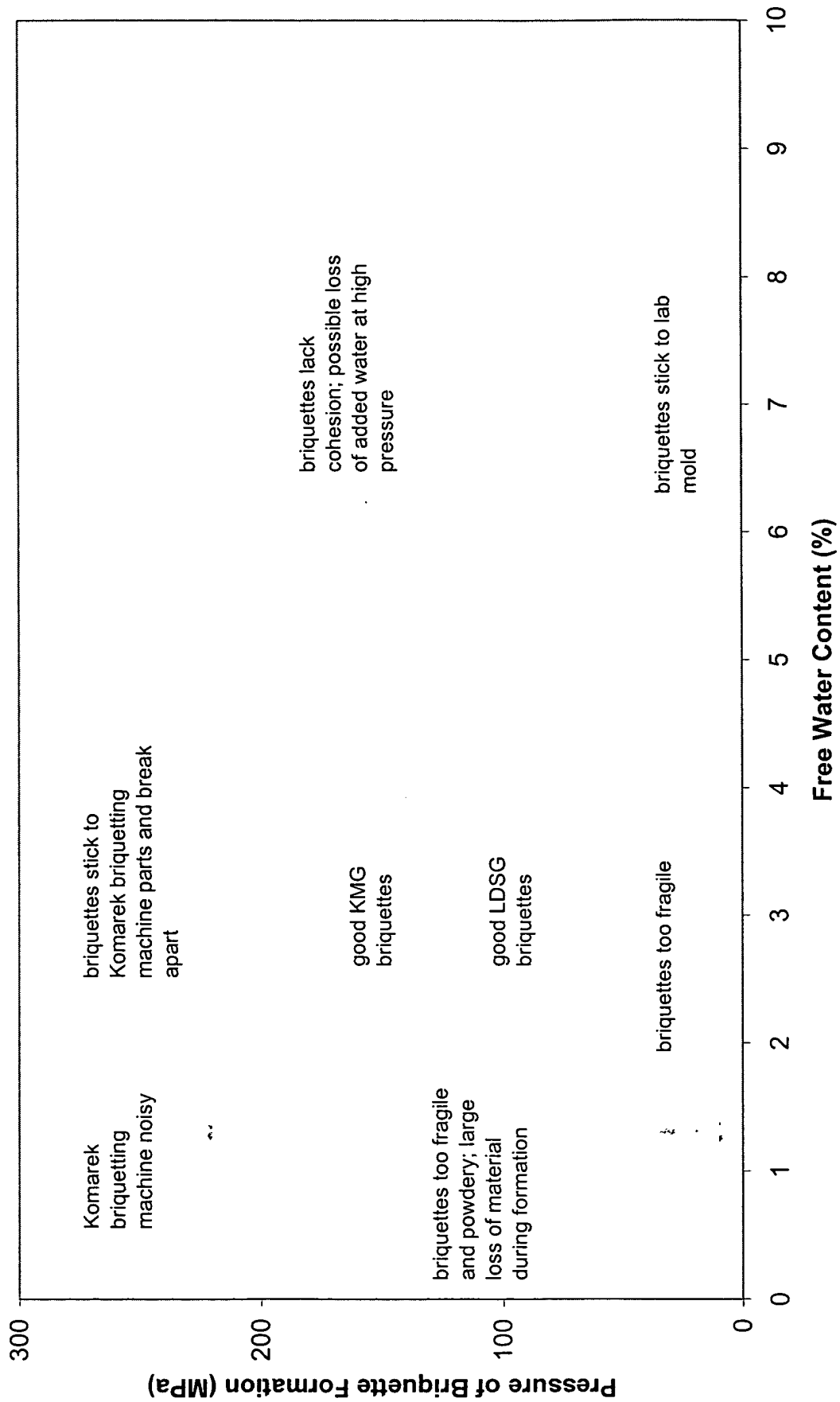
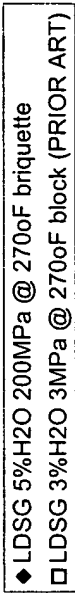


FIG. 5 Rate of Calcination, Briquette versus Block



**FIG. 6 Rate of Calcination of LDSG 3% H₂O 3 MPa block @ 270°F with
Location Sampling (PRIOR ART)**

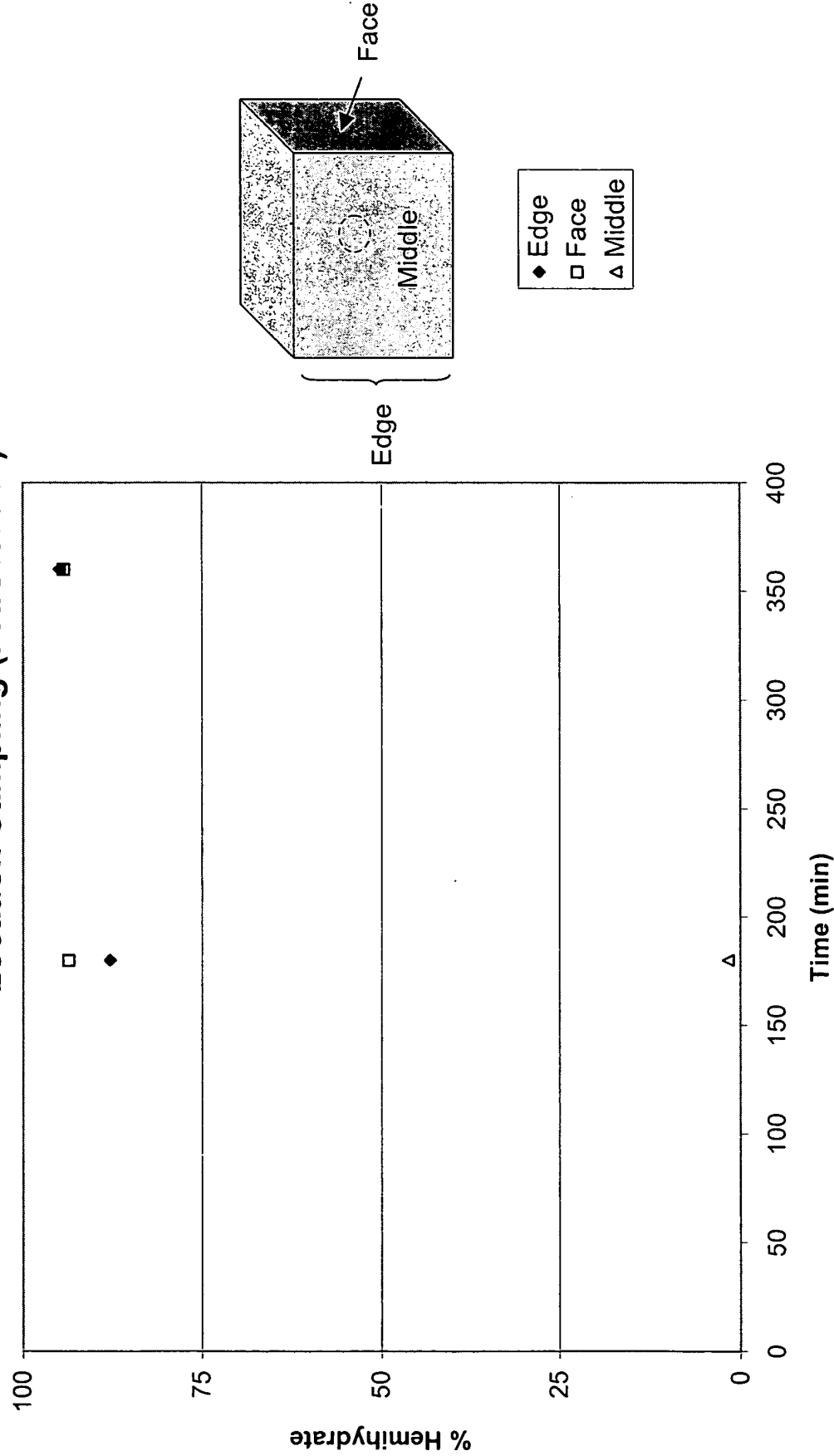


FIG. 7A

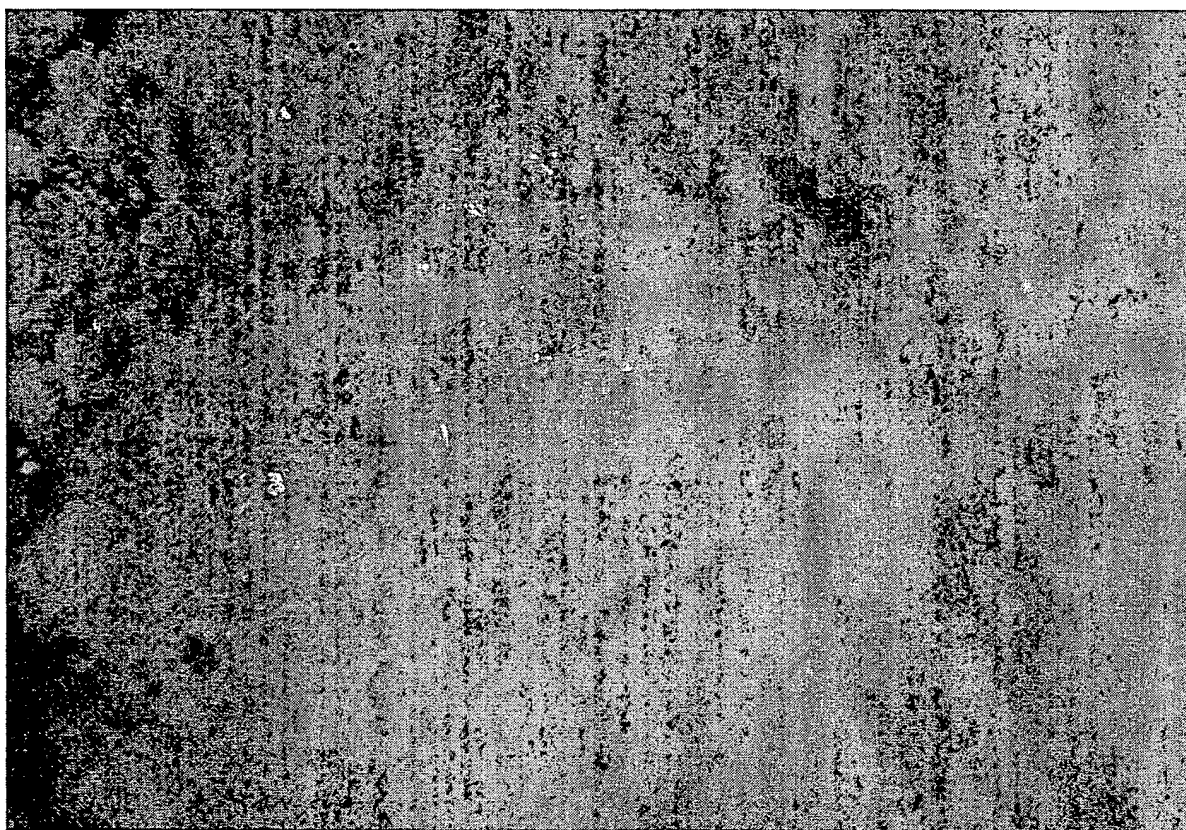


FIG. 7B

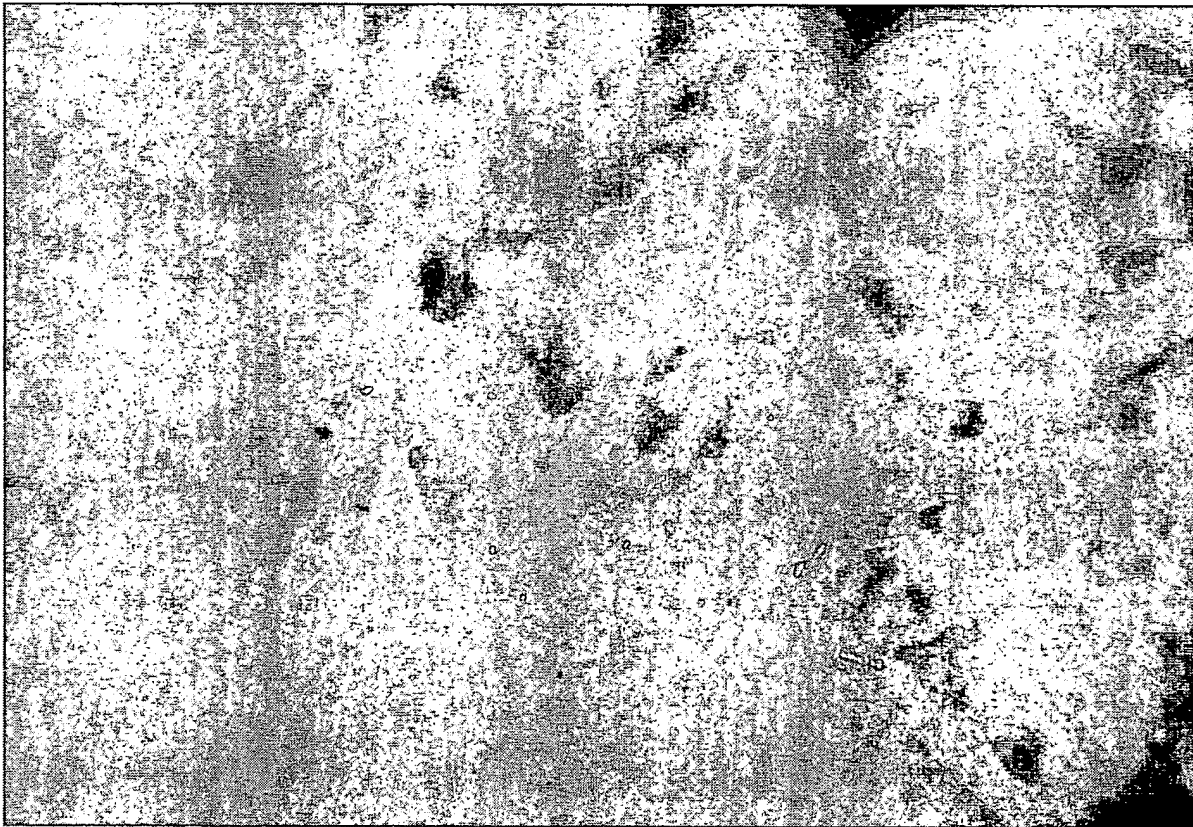


FIG. 7C

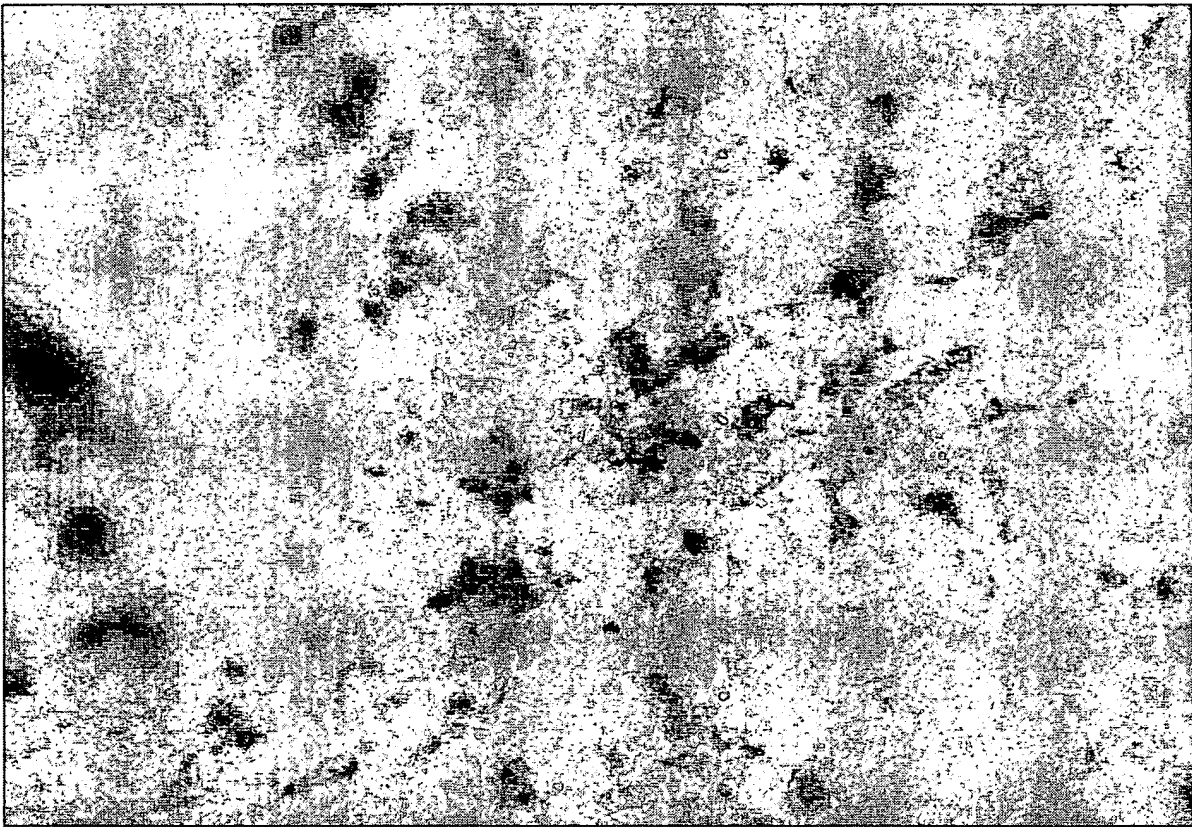


FIG. 7D

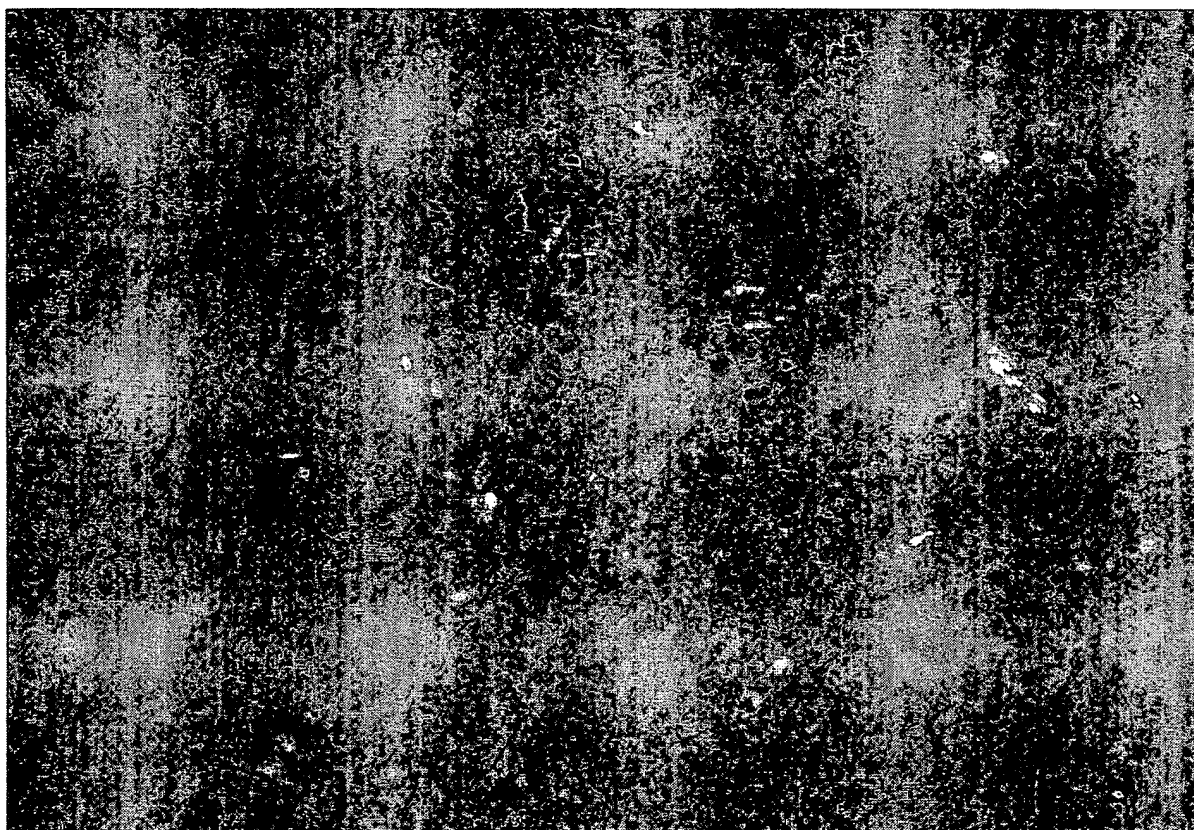


FIG. 8 Autoclave Temperature; Pilot Trial versus Lab Calcination

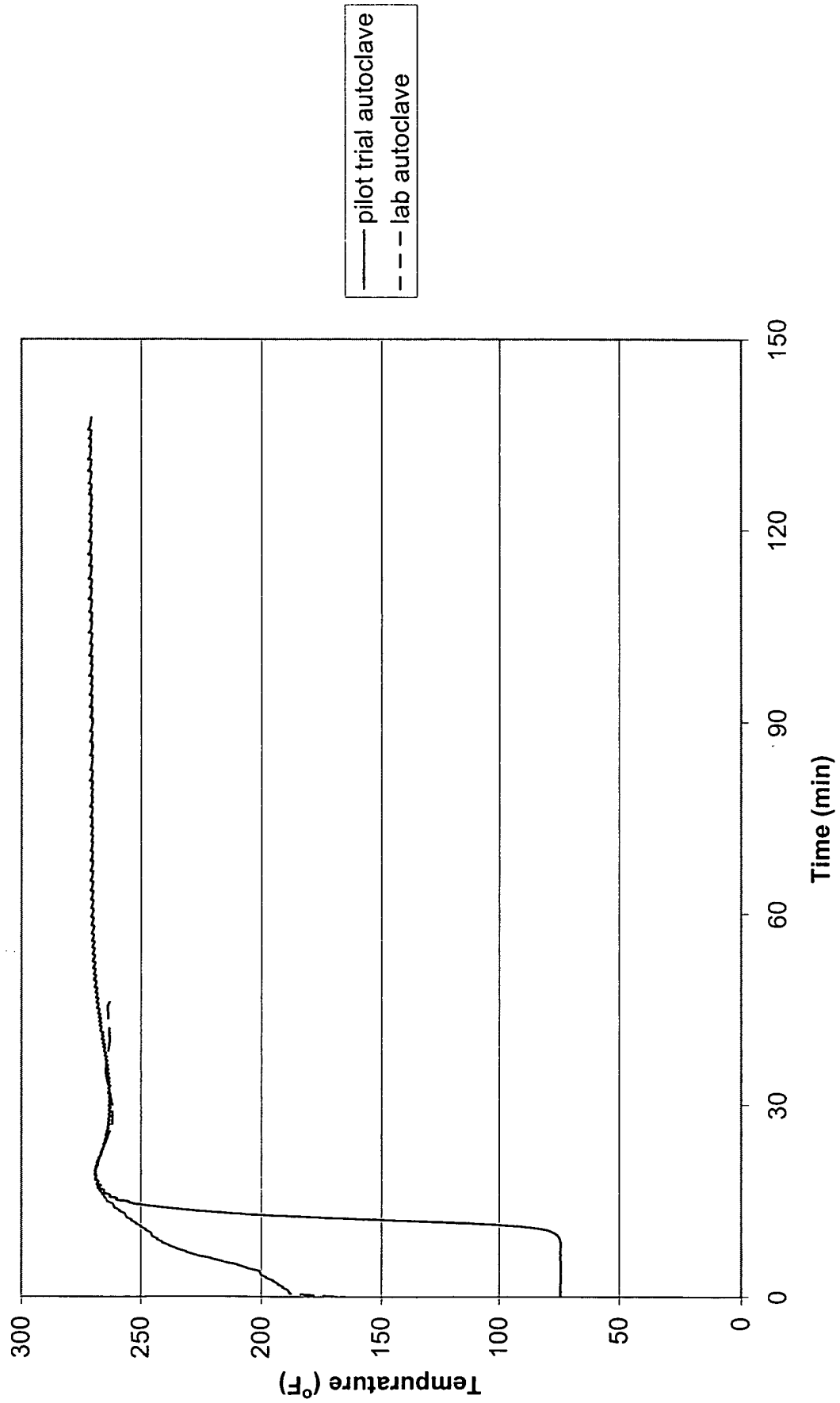
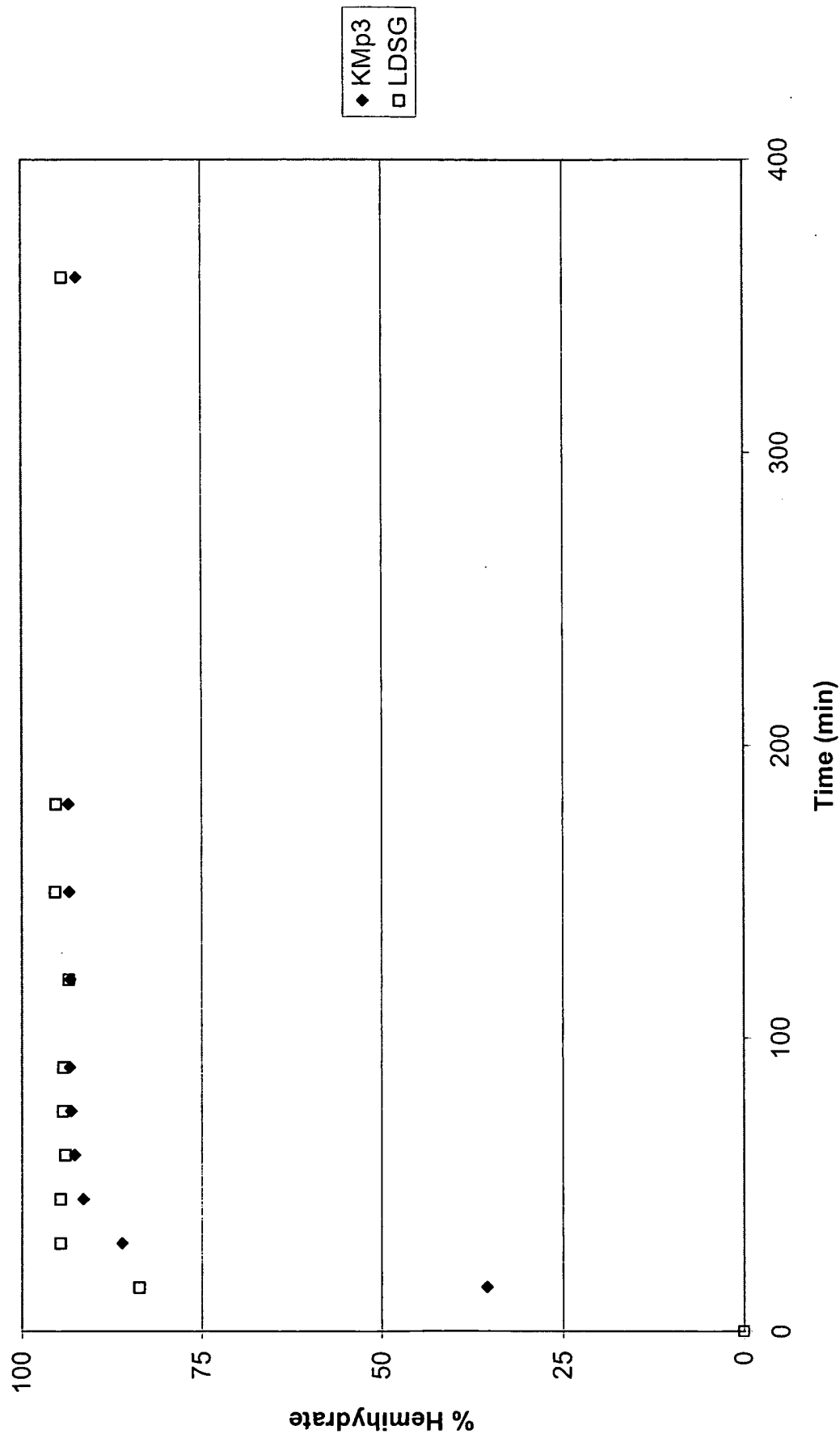


FIG. 9 Rate of Calcination; Gypsum Type 5% H_2O 200MPa @ 270°F



**FIG. 10 Rate of Calcination; Effect of Pressure, Kmp3 5% H₂O @ 270°C
30 min**

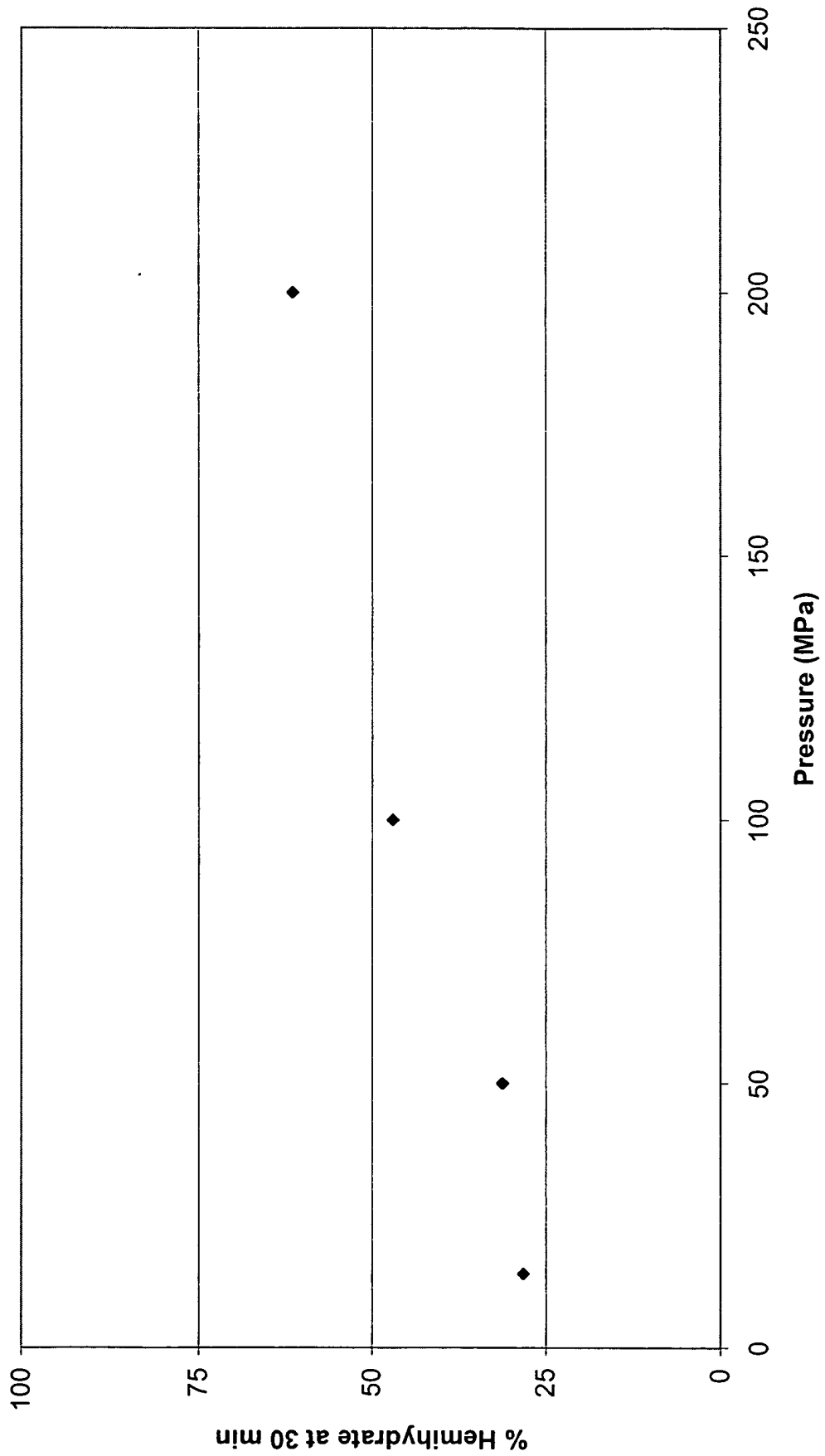


FIG. 11 Hammer Mill Grinding Apparatus

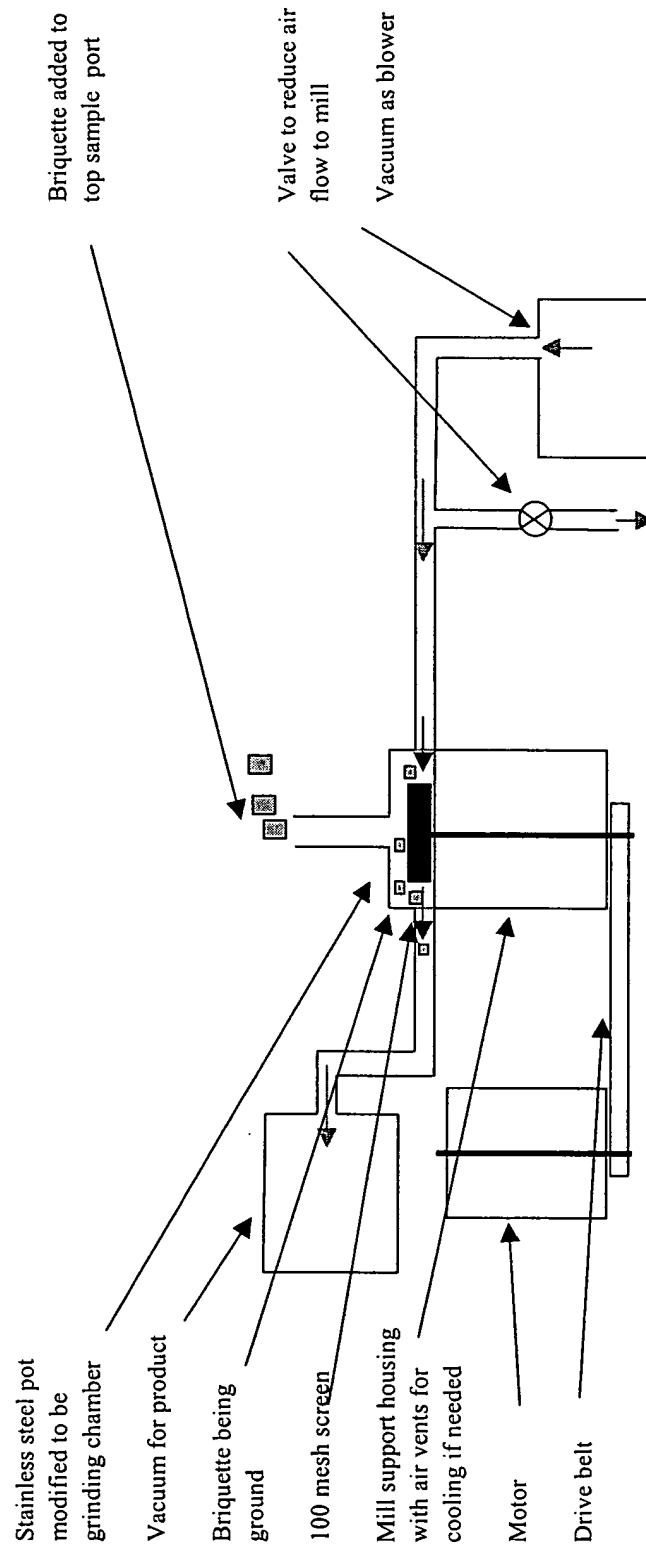


FIG. 12 Water Demand; Type of Gypsum 270°F 150 min

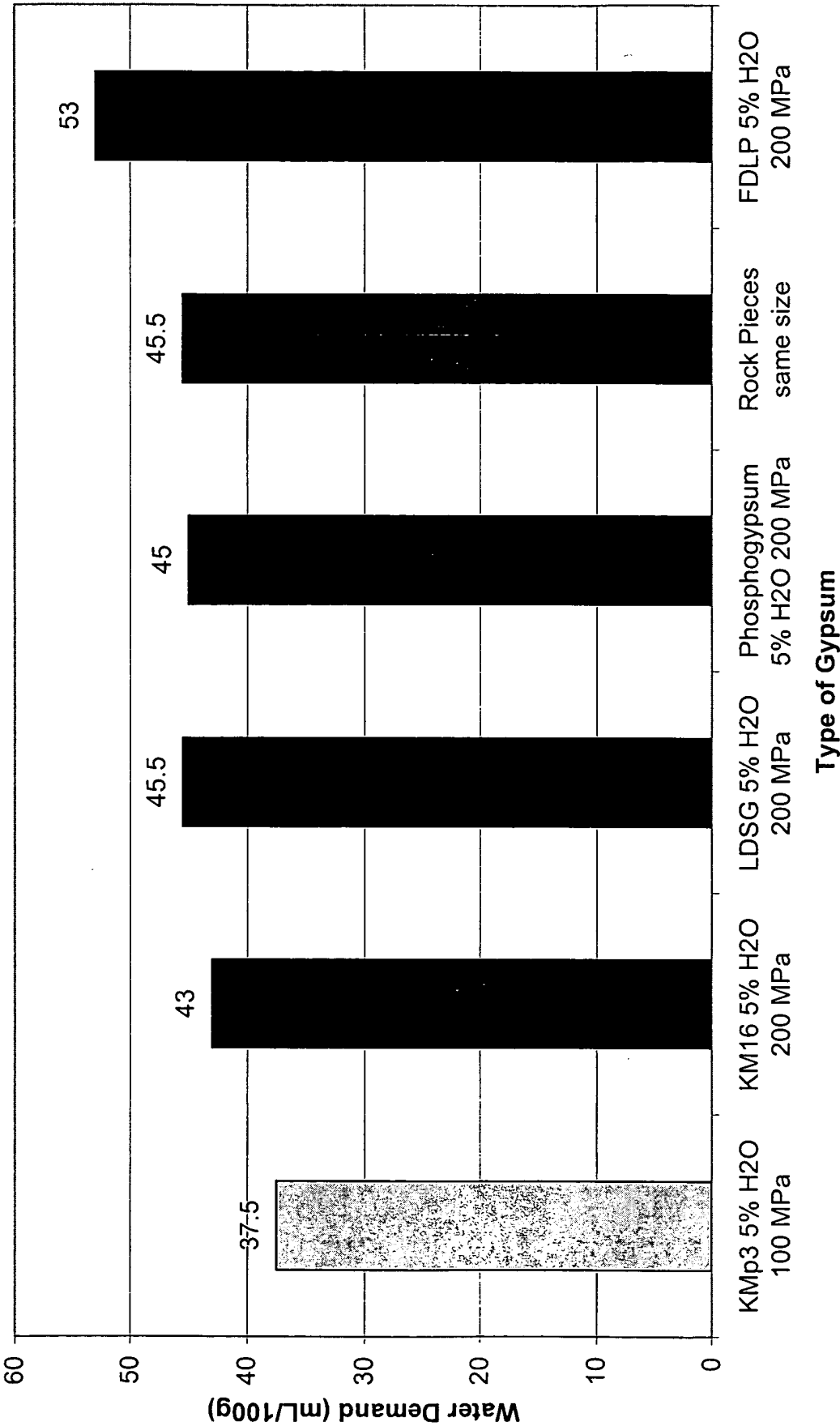


FIG. 13 Water Demand; Effects of Pressure 5% H₂O 270°F

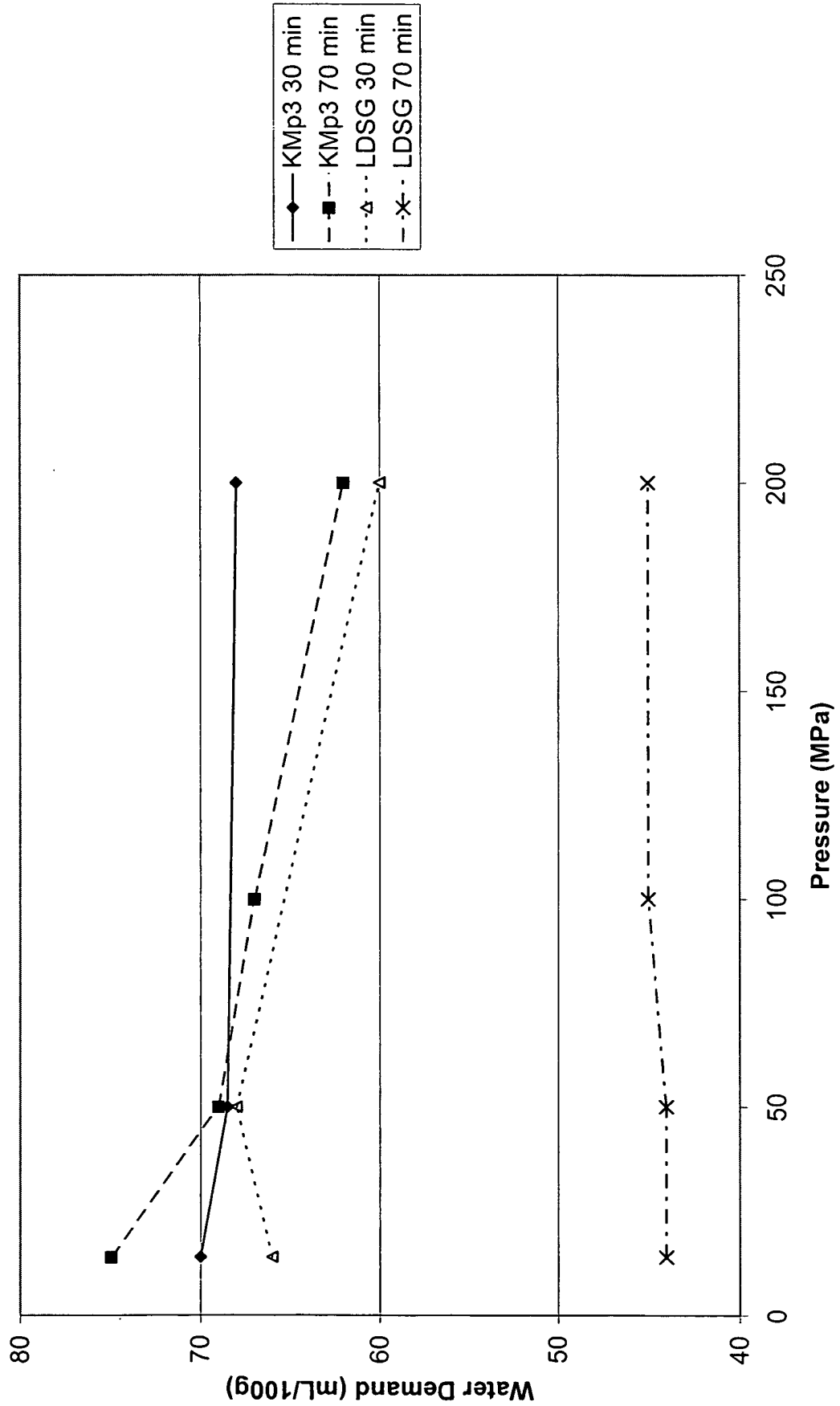


FIG. 14A

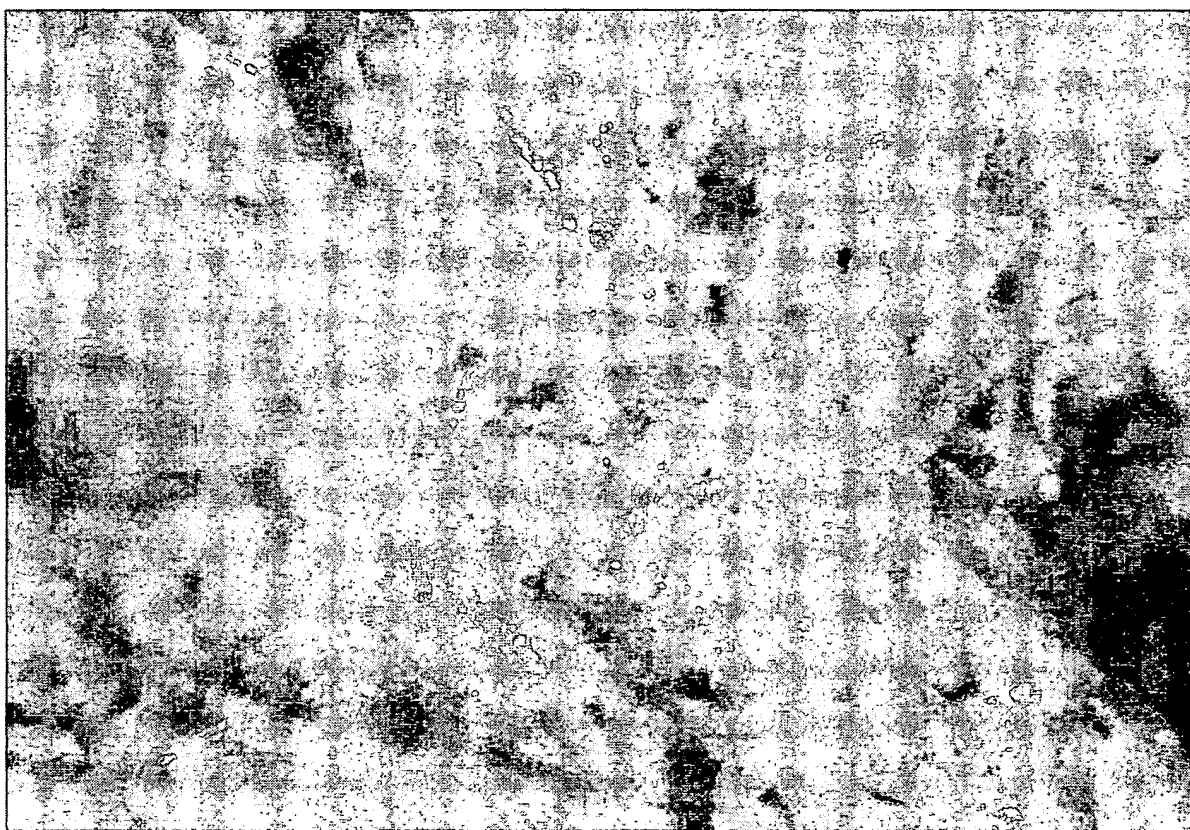


FIG. 14B

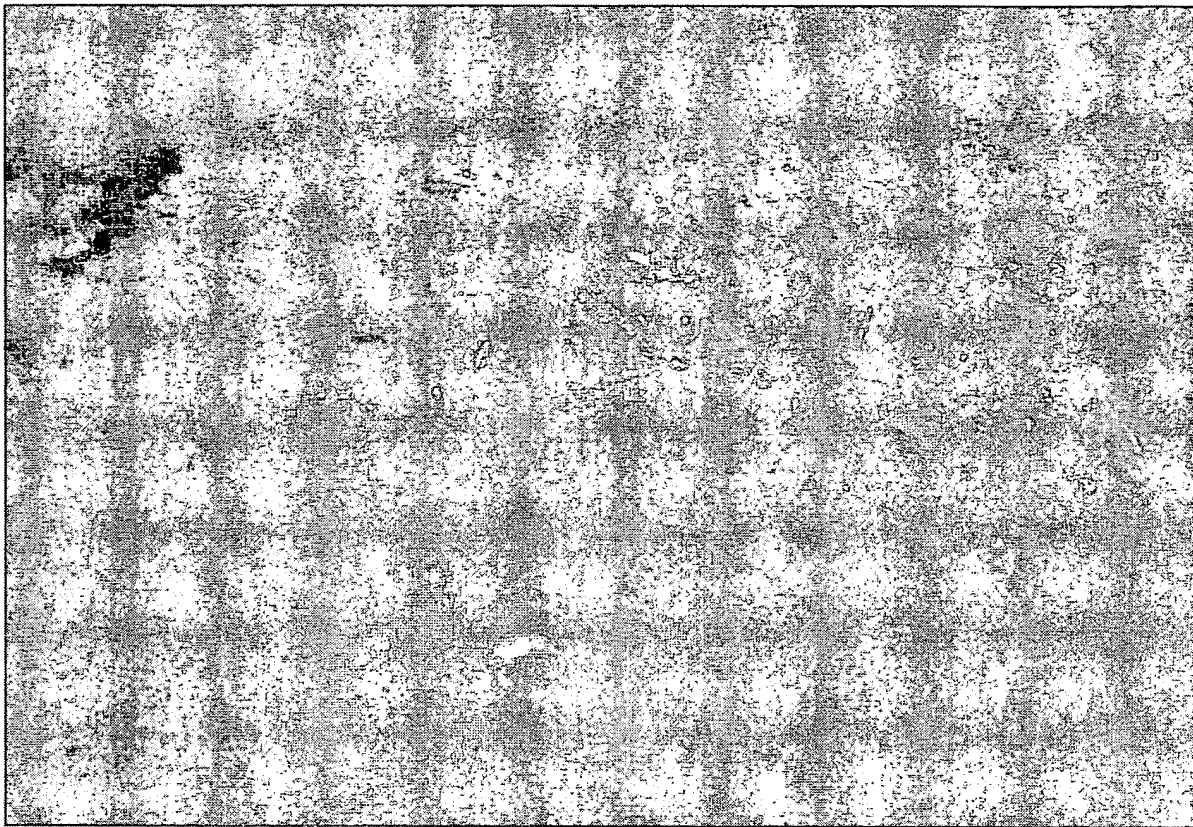


FIG. 14C



FIG. 14D

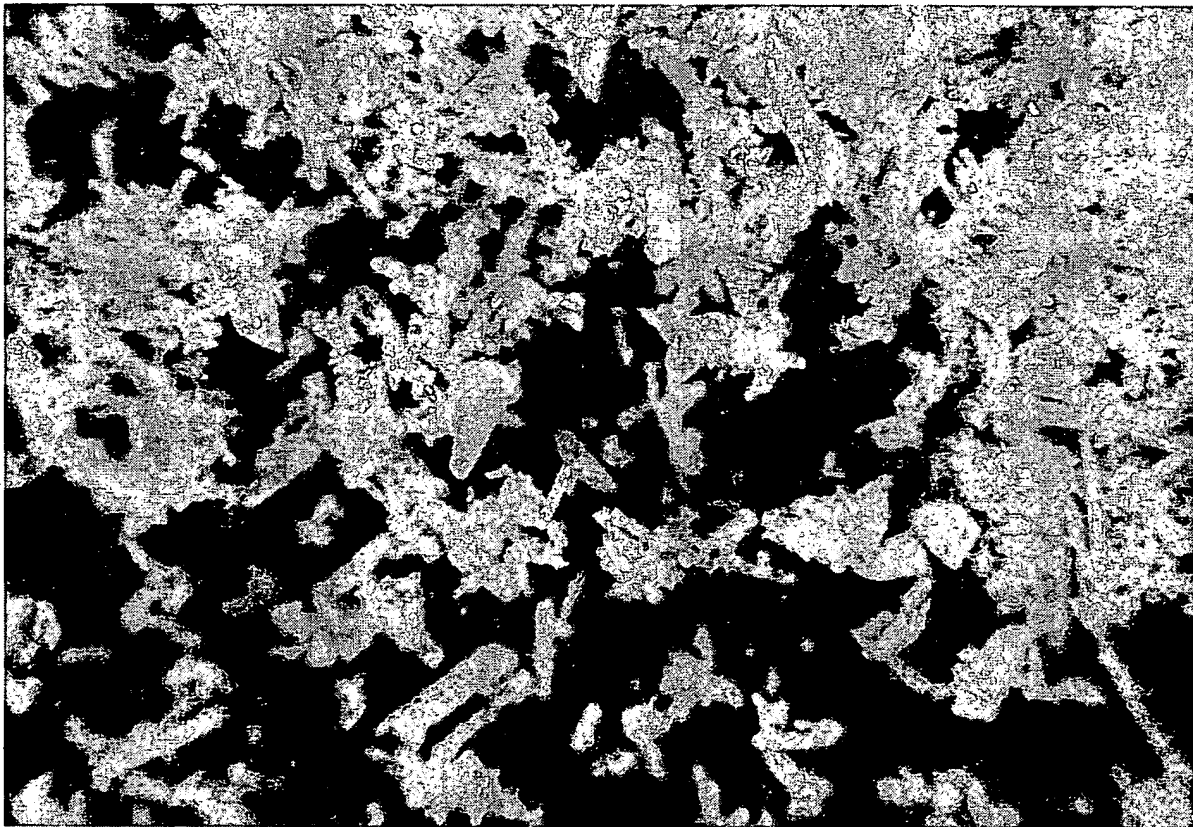


FIG. 14E

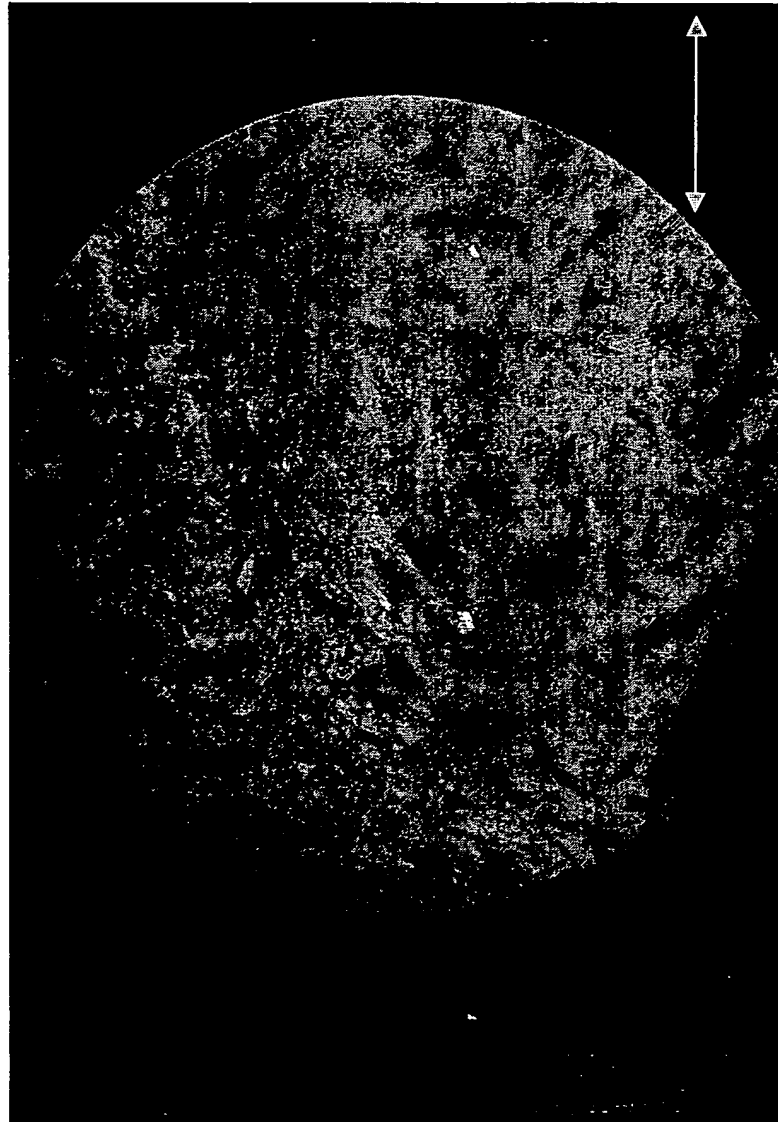


FIG. 14F

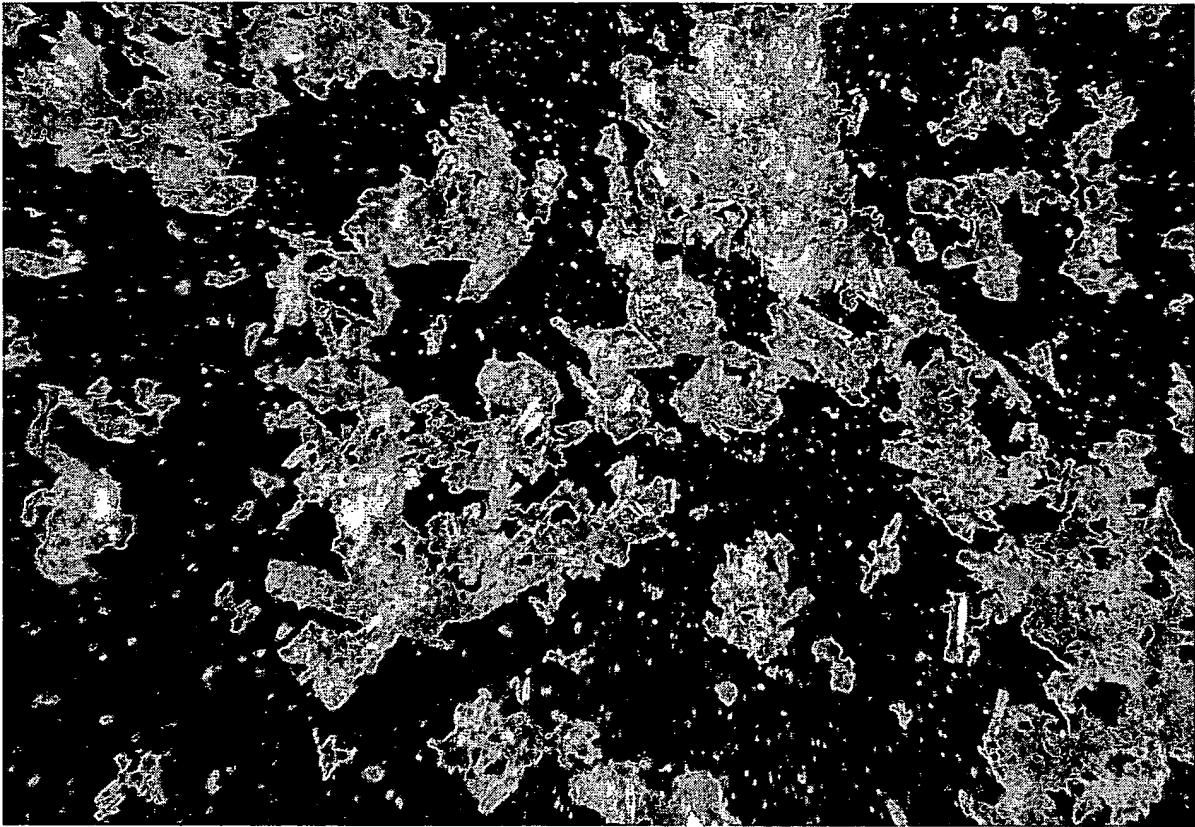


FIG. 14G

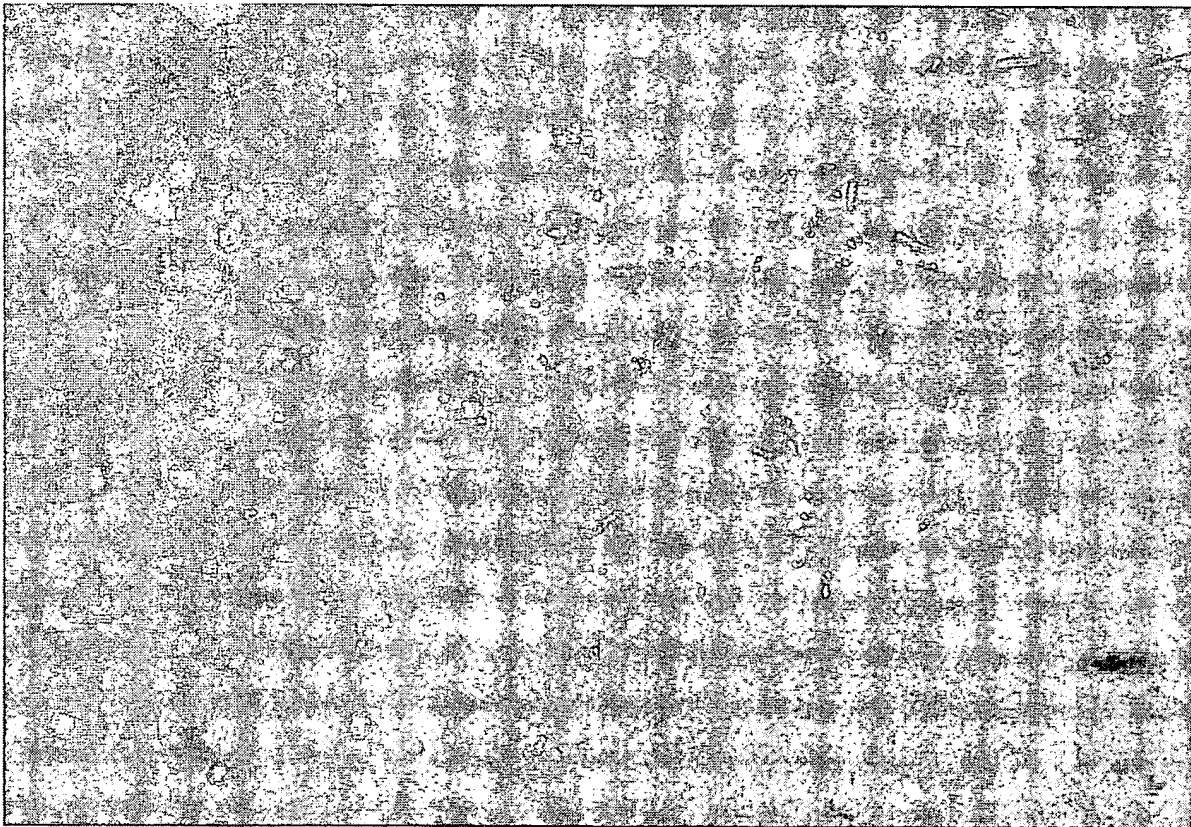


FIG. 14H

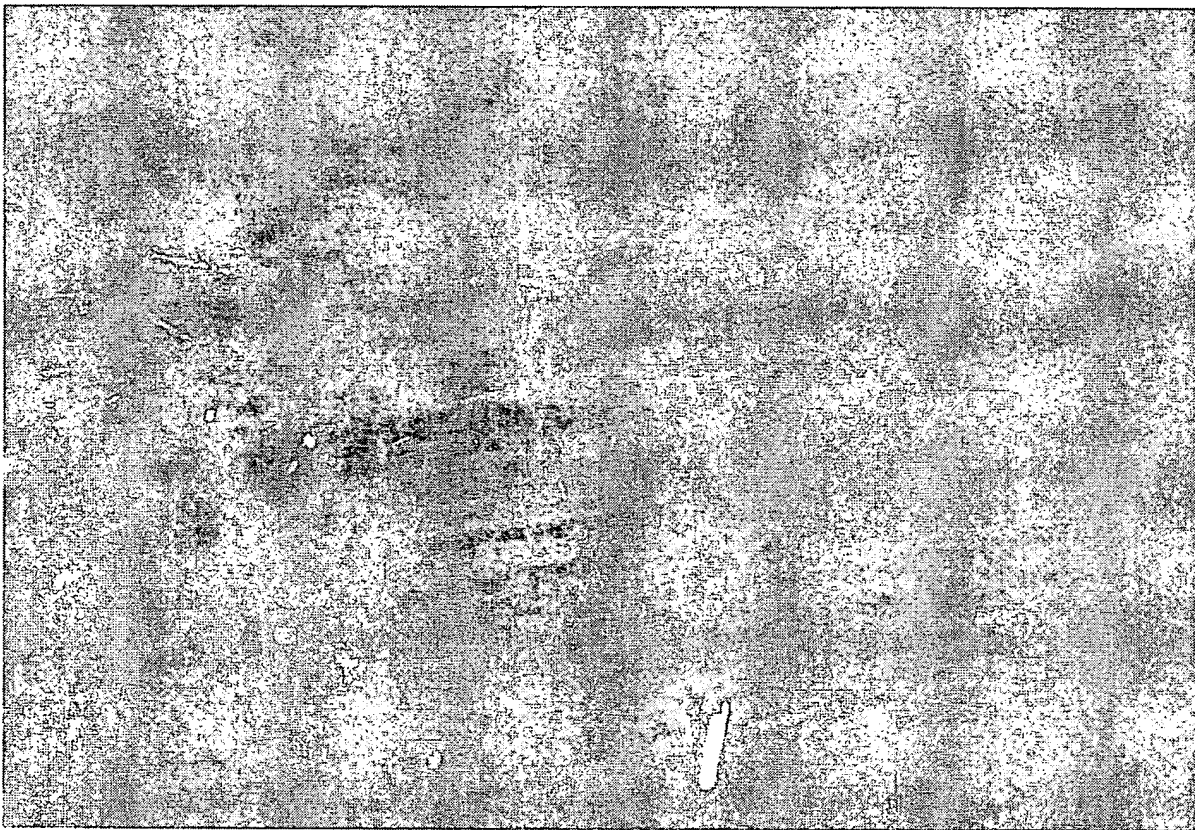


FIG. 14I

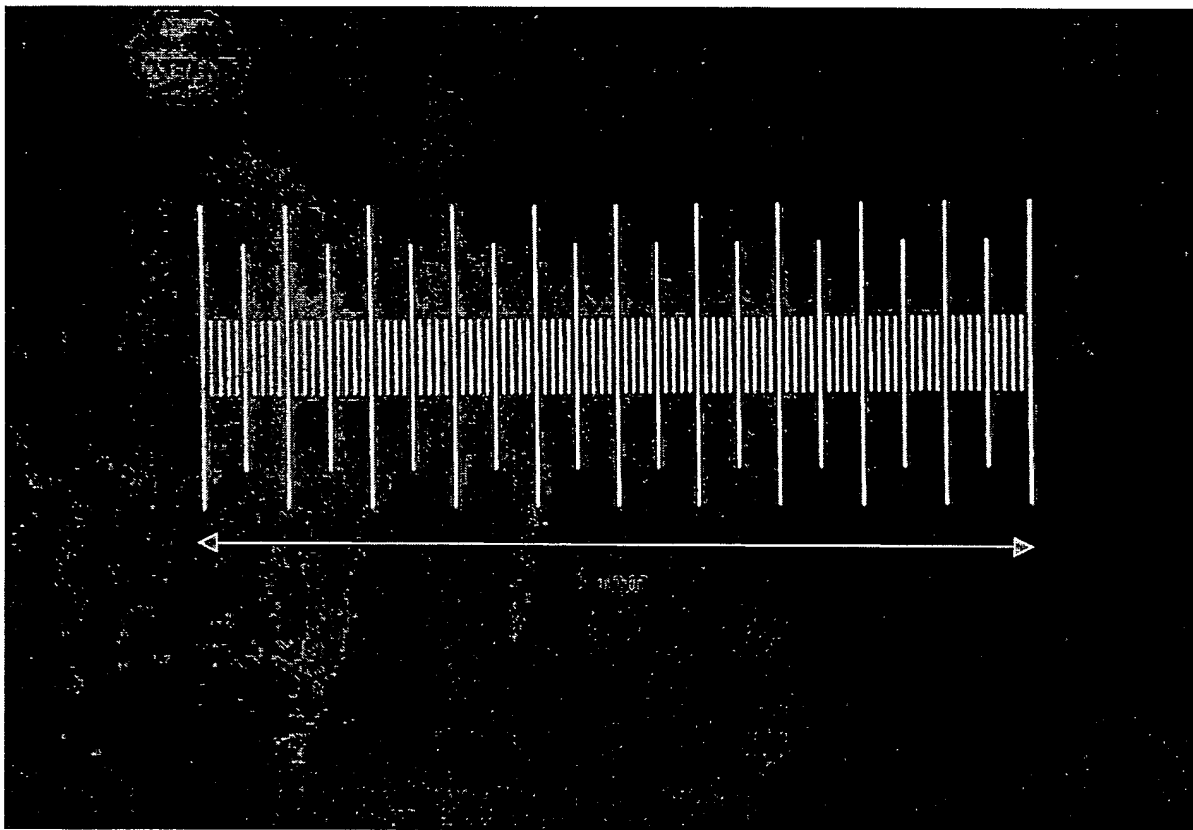


FIG. 15 Water Demand; Effects of H₂O 270°F 150 min

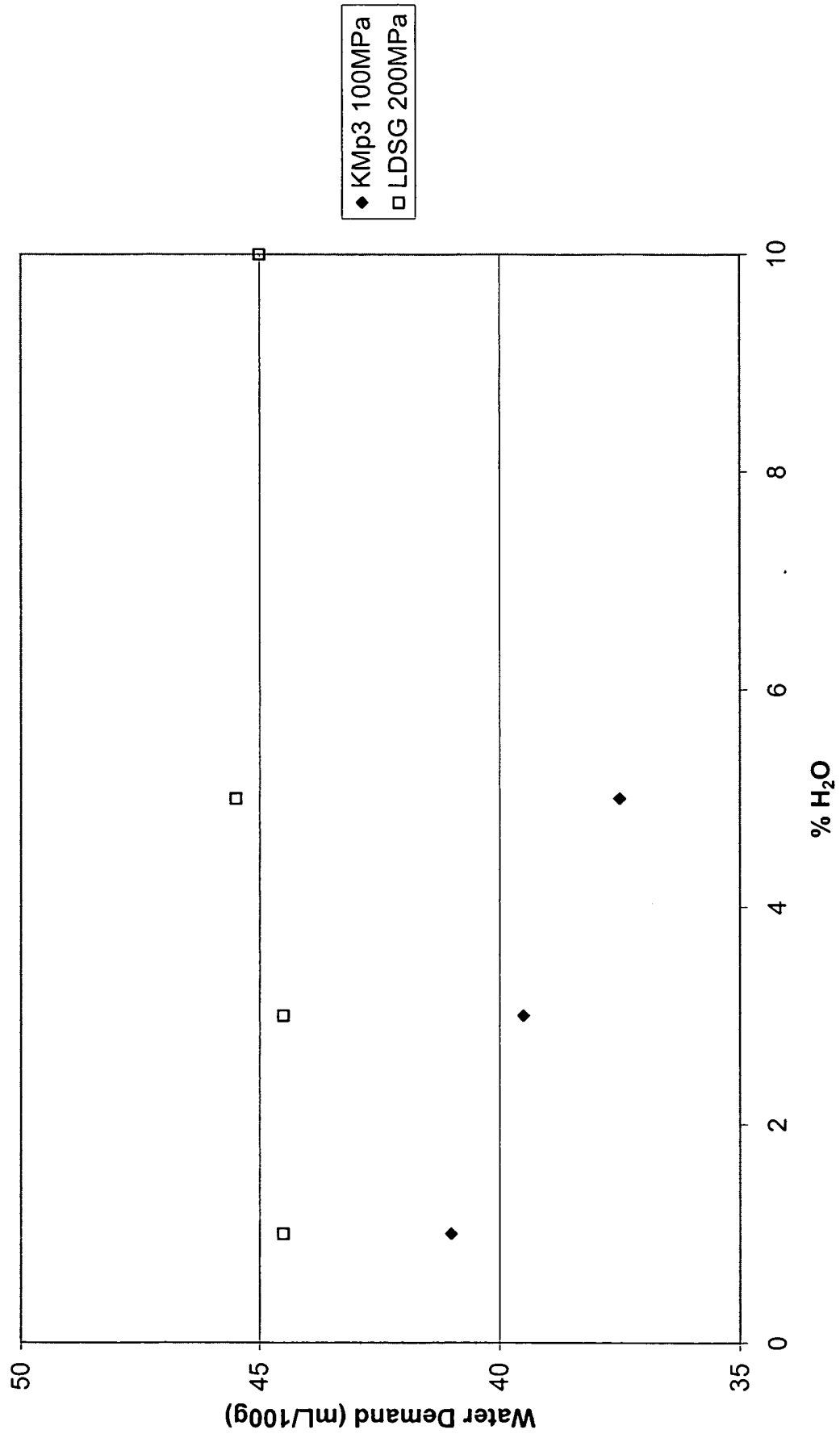


FIG. 16 Water Demand; Effects of Additives Kmp3 3% H2O 200 MPa
270°F 150 min

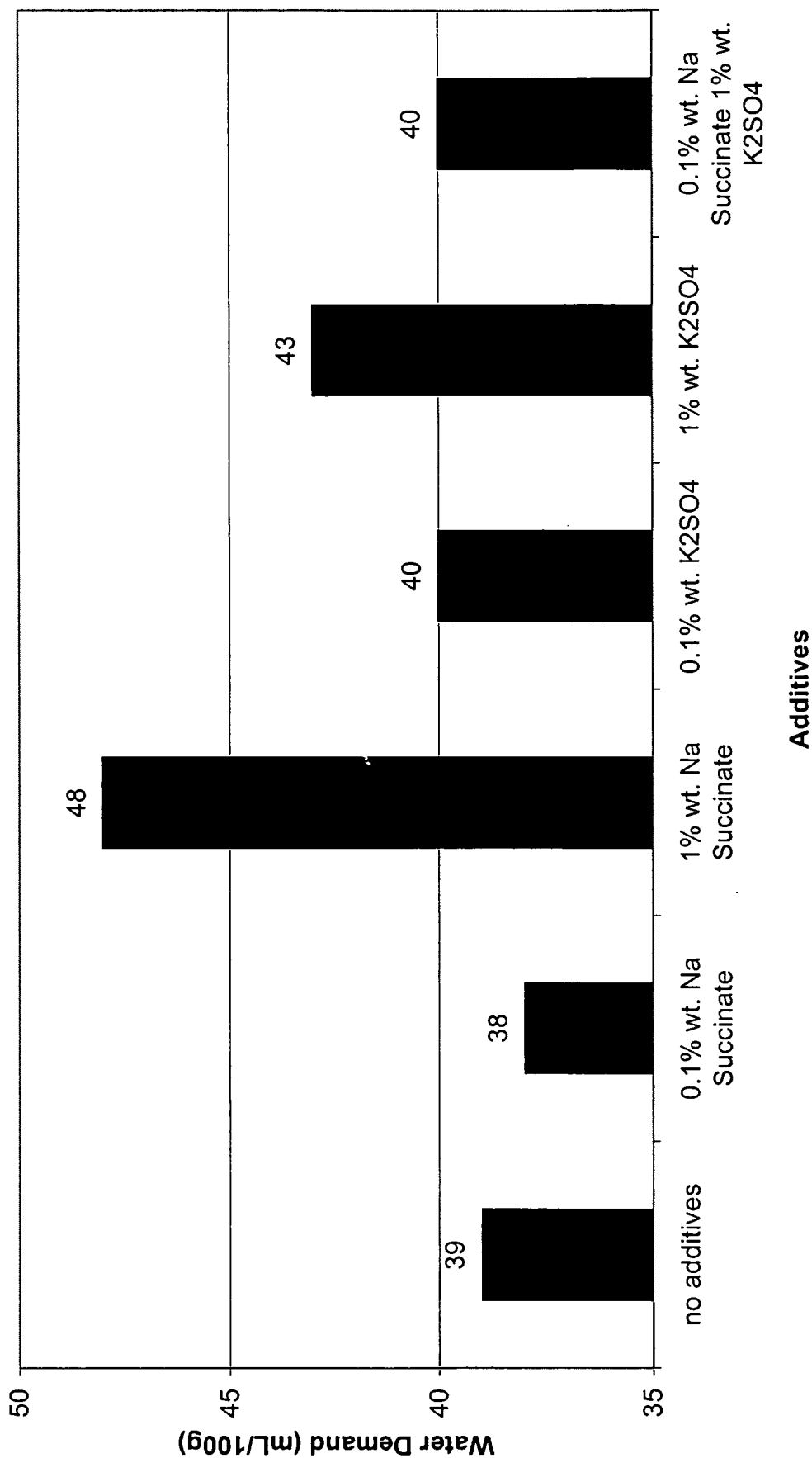


FIG. 17 Briquette Void Percentage; Calcined 150 min @ 270°C

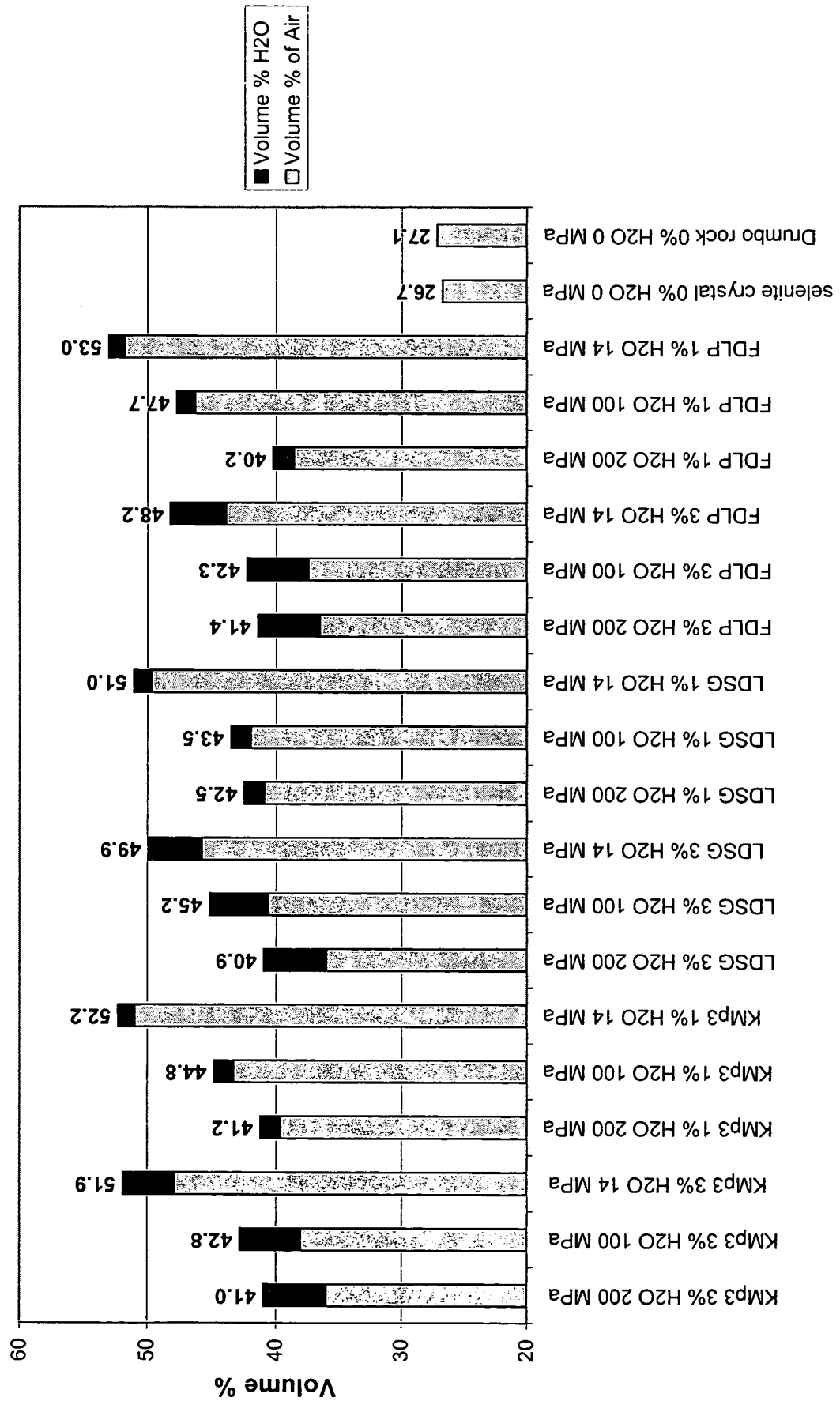


FIG. 18 Briquette Void Percentage; Uncalcined

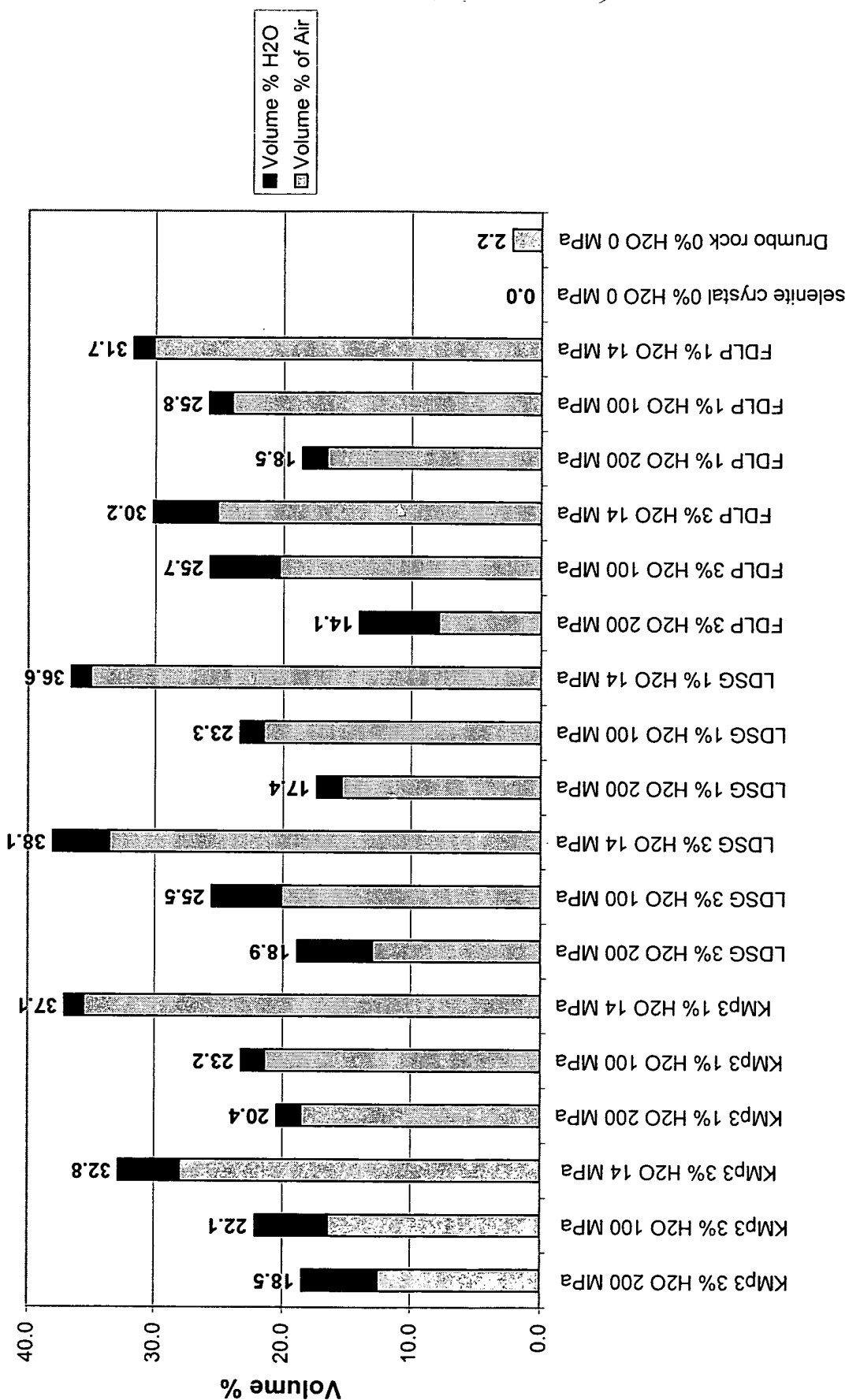
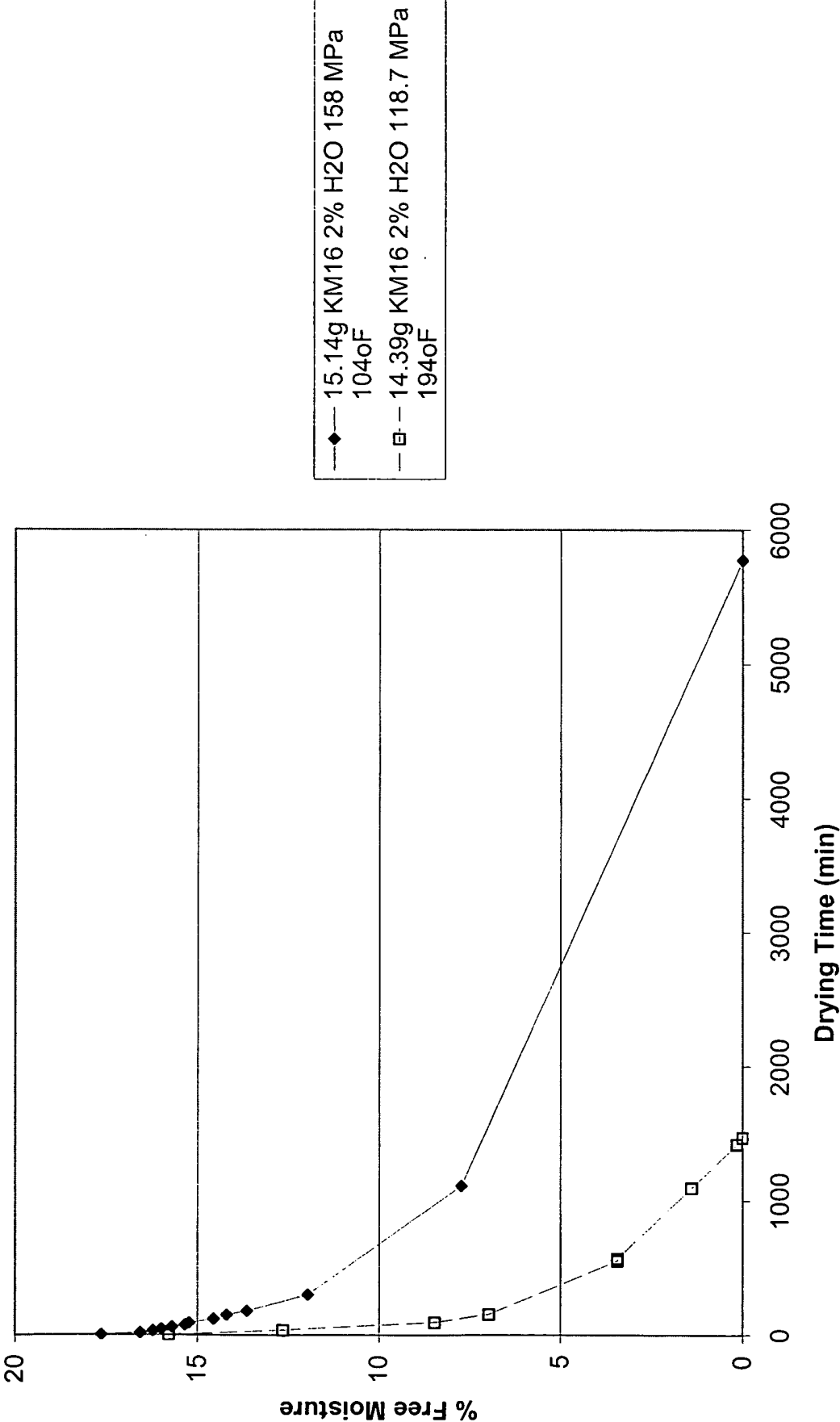


FIG. 19 Drying Rates of Large Briquettes; 104°F versus 194°F



**FIG. 20 Drying Rates at 194°F with Varying Drying/Crushing Methods;
18.64g KM16 5% H₂O 152 MPa**

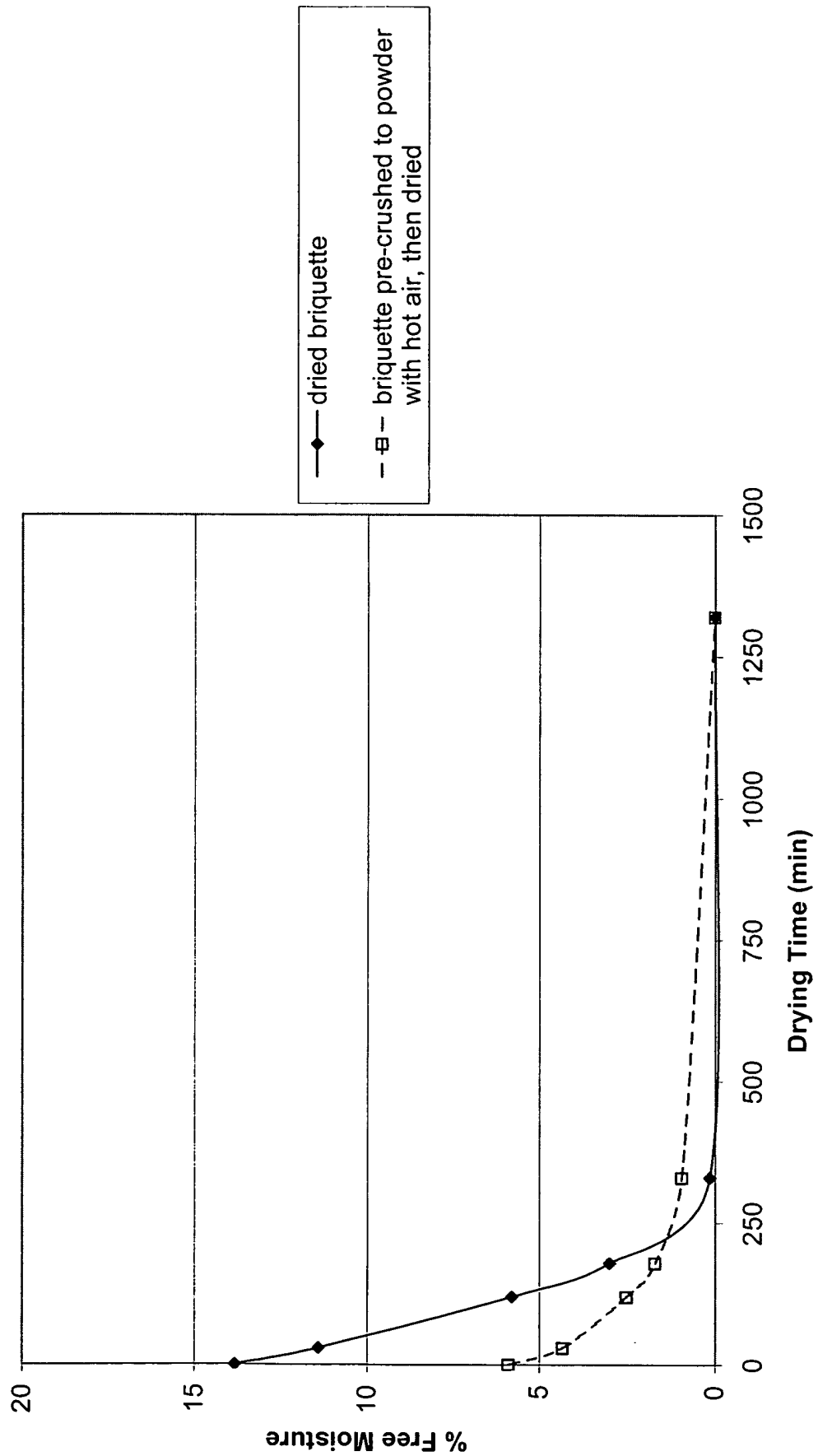


FIG. 21 Effect on Compressive Strength of
Replacing Sand with Fly Ash

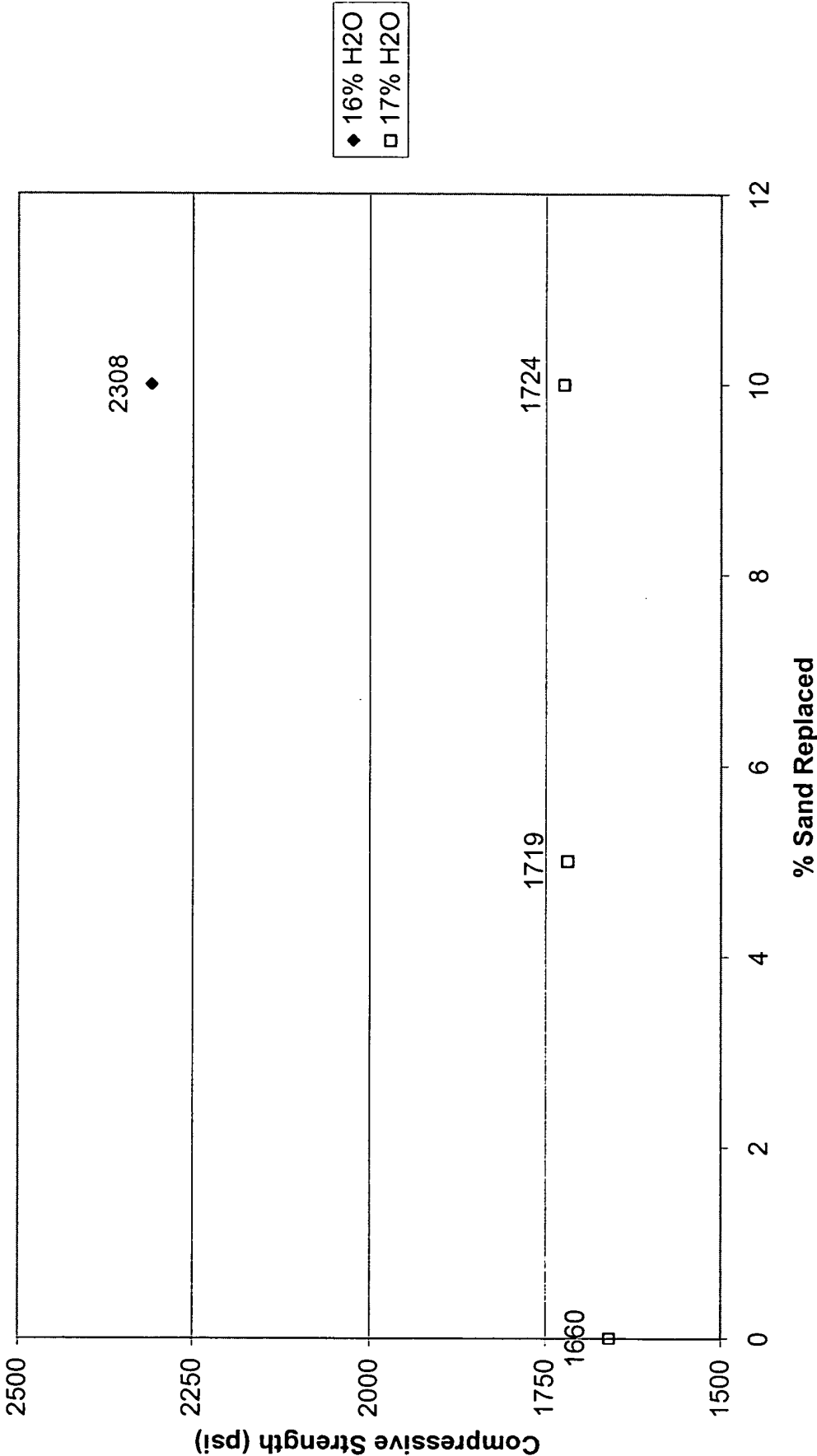


FIG. 22A Raw Kmp3
Diameter if Sphere (Log₁₀ scale) (X) versus Ellipsoid (B/A) (Y)
versus % of Volume (Z)

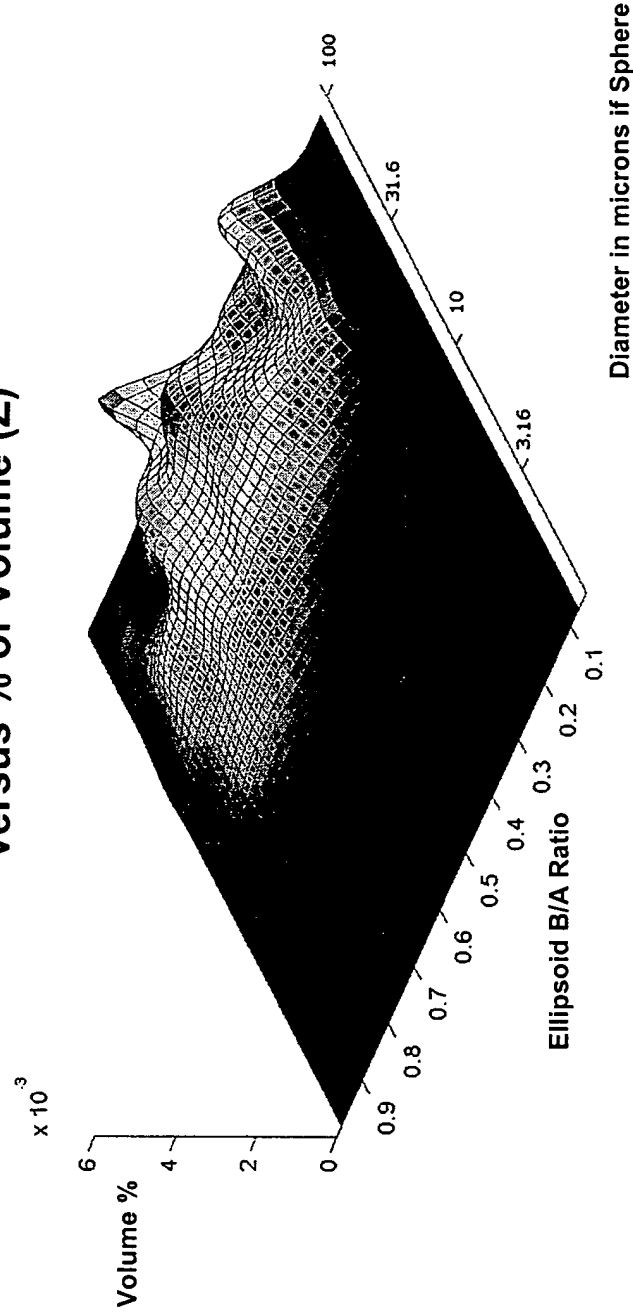
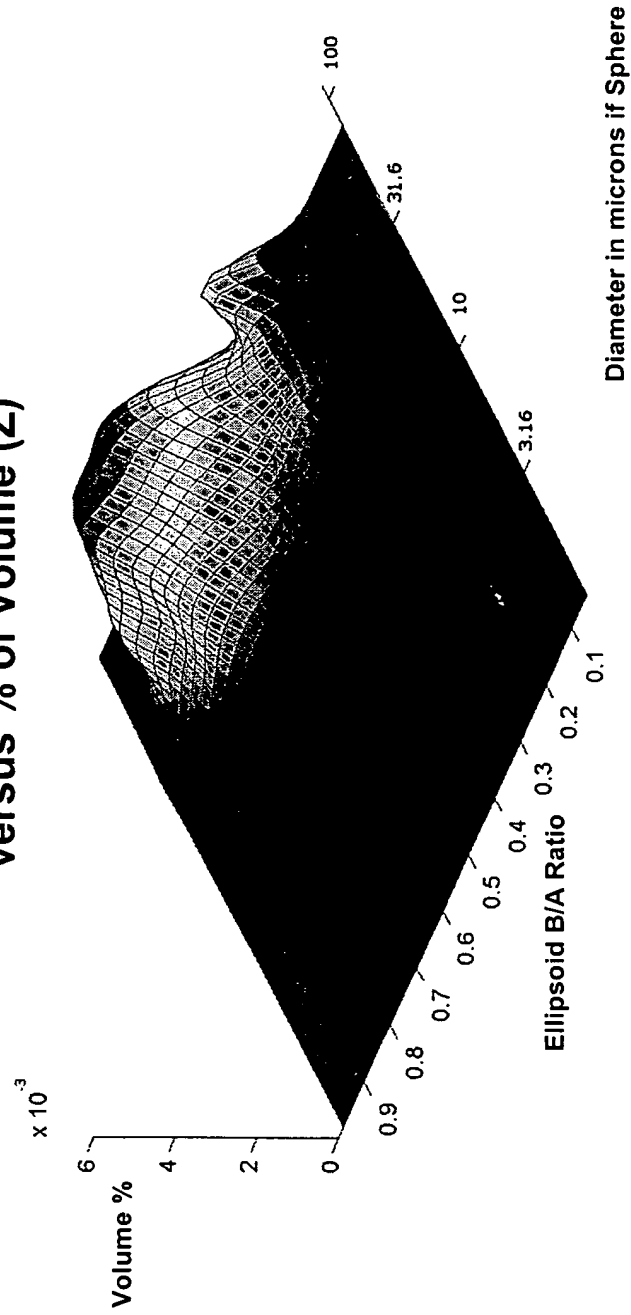
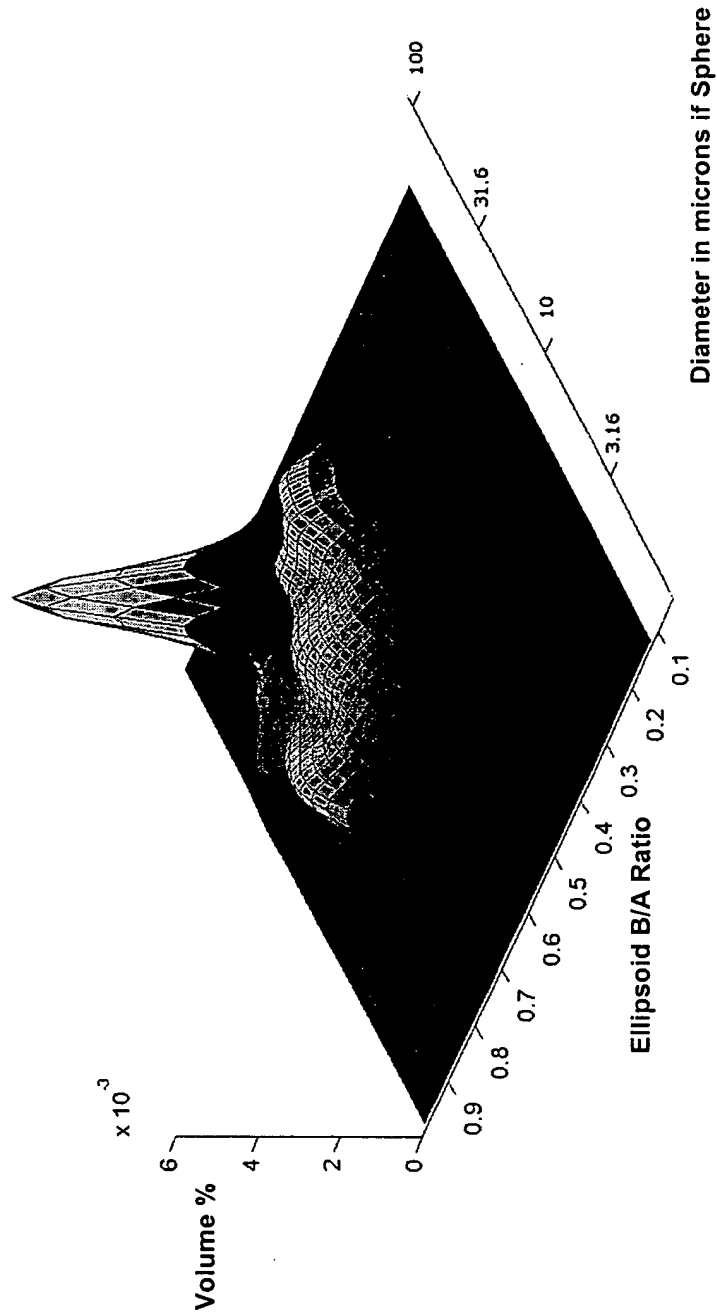


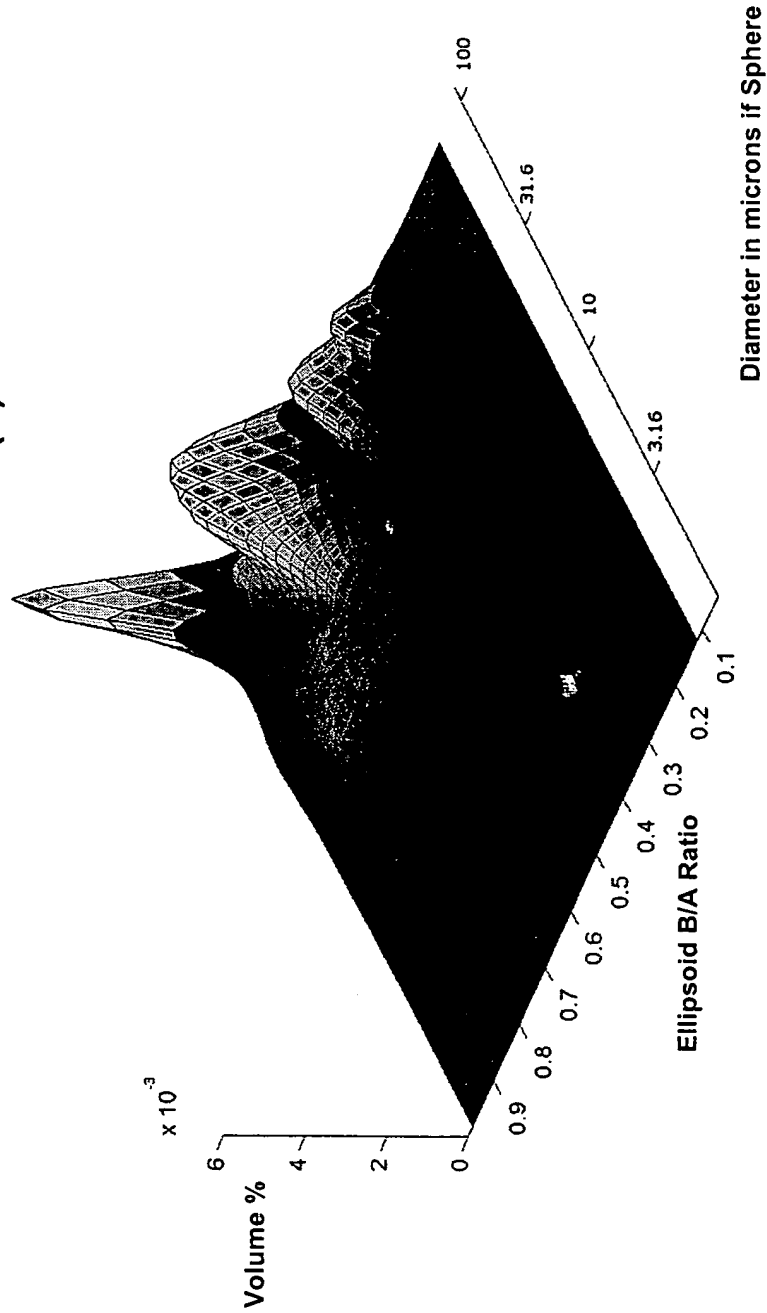
FIG. 22B Raw LDSG
Diameter if Sphere (\log_{10} scale) (X) versus Ellipsoid (B/A) (Y)
versus % of Volume (Z)



**FIG. 23A Calcined and Ground Kmp3 1% H₂O 100 MPa
Diameter if Sphere (Log₁₀ scale) (X) versus Ellipsoid (B/A) (Y)
versus % of Volume (Z)**



**FIG. 23B Calcined and Ground KMP3 5% H₂O 100 MPa
Diameter if Sphere (Log₁₀ scale) (X) versus Ellipsoid (B/A) (Y)
versus % of Volume (Z)**



**FIG. 23C Calcined and Ground LDSG 5% H₂O 100 MPa
 Diameter if Sphere (Log₁₀ scale) (X) versus Ellipsoid (B/A) (Y)
 versus % of Volume (Z)**

